# **DSR-40/40P**

## **SERVICE MANUAL**

US Model Canadian Model

AEP Model DSR-40P

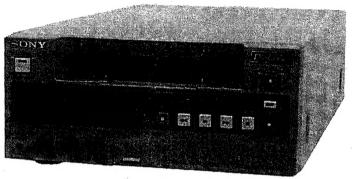


Photo: DSR-40

### **SPECIFICATIONS**

Recording format DVCAM format, rotating 2-head

helical scan, digital component

recording

Video signal

DSR-40:

EIA STANDARD, NTSC color

DSR-40P:

CCIR STANDARD, PAL colour

system

Video

Quantification 8-bit

Standardization frequency DSR-40:

DSR-40P:

13.5 MHz (4:1:1 Component) 13.5 MHz (4:2:0 Component)

**Audio** 

12-bit (non-linear) or 16-bit (linear) Quantification

Standardization frequency

32 kHz (12-bit recording)

or 48 kHz (16-bit recording)

Usable cassettes Standard-DVCAM cassettes and

Mini-DVCAM cassettes

184 minutes (when using the PDV-Recording time

184ME cassette)

40 minutes (when using the PDVM-40ME cassette)

Clock

Quartz locked

DSR-40: DSR-40P: 12-hour cycle display 24-hour cycle display

Power back-up

Built-in self-charging capacitor Back-up duration: up to 100 hours

(After 8 hour charges)

Inputs and outputs

INPUT S VIDEO: Mini DIN 4-pin

Luminance signal: 1 Vp-p (75 ohms unbalanced) Chrominance signal: 0.286 Vp-p (DSR-40) 0.3 Vp-p (DSR-40P) (75 ohms unbalanced)

VIDEO: BNC type Input signal: 1 Vp-p (75 ohms unbalanced) AUDIO: Phono jack (L, R) Input level: 2 Vrms (full bit) Input impedance: more than

47 kohms

VIDEO: BNC type MONITOR

Output signal: 1 Vp-p (75 ohms unbalanced) AUDIO CH1/3: Phono jack Output level: 2 Vrms (full bit) Output impedance: less than

10 kohms

AUDIO CH2/4: Phono jack Output level: 2 Vrms (full bit) Output impedance: less than

10 kohms

- Continued on next page -

DVCAM DIGITAL VIDEO CASSETTE RECORDER





# **DSR-40/40P**

SONY

## **SERVICE MANUAL**

US Model Canadian Model DSR-40 AEP Model DSR-40P

## **CORRECTION-1**

File this correction with the service manual (99-012)

CORRECTION OF ELECTRICAL PARTS LIST

### 6-2. ELECTRICAL PARTS LIST

(See Service Manual Page 6-31)

Page			INCORRECT					CORRECT		
	Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		<u>Remark</u>
6-31	<b>△</b>	1-468-377-11	POWER BLOCK (U-2)	(DSR-40)		Δ	1-468-377-11		(U-2) (DSR-40)	
	$\Delta$	1-468-378-11	POWER BLOCK (U-2)	(DSR-40P)		Δ	1-468-378-11	POWER BLOCK	(U-2) (DSR-40P)	
	C3	9-880-339-01	FILM 0.047	ιF		C3	9-880- <u>399</u> -01	FILM	0.047μF	
	C14	9-880-339-01	FILM 0.047			C14	9-880-399-01	FILM	0.047µF	
	C15	9-880-339-01	FILM 0.047			C15	9-880-399-01	FILM	0.047µF	
	C16	9-880-339-01	FILM 0.047			C16	9-880-399-01	FILM	0.047µF	
	C17	9-880-339-01	FILM 0.047			C17	9-880- <u>399</u> -01	FILM	0.047µF	
	C22	9-880-339-01	FILM 0.047	ıF		C22	9-880-399-01	FILM	0.047µF	
	C23	9-880-339-01	FILM 0.047			C23	9-880-399-01	FILM	0.047µF	
	C24	9-880-339-01	FILM 0.047			C24	9-880-399-01	FILM	0.047µF	
	C25	9-880-339-01	FILM 0.047			C25	9-880-399-01	FILM	0.047µF	
	C27	9-880-339-01	FILM 0.047			C27	9-880- <u>399</u> -01	FILM	0.047µF	
	C41	9-880-339-01	FILM 0.047	ıF		C41	9-880- <u>399</u> -01	FILM	0.047µF	
	C42	9-880-339-01	FILM 0.047			C42	9-880-399-01	FILM	0.047µF	
	C43	9-880-339-01	FILM 0.047			C43	9-880- <u>399</u> -01	FILM	0.047μF	

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiquens pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

OUTPUT

S VIDEO: Mini DIN 4-pin Luminance signal: 1 Vp-p (75 ohms unbalanced) Chrominance signal: 0.286 Vp-p (DSR-40) 0.3 Vp-p (DSR-40P) (75 ohms unbalanced)

VIDEO: BNC type 1 Vp-p (75 ohms unbalanced)

Y: BNC type

I Vp-p (75 ohms unbalanced)

R-Y: BNC type

0.7 Vp-p (75 ohms unbalanced) (DSR-40: 75%, color bar / DSR-

40P: 100%, color bar)

B-Y: BNC type

0.7 Vp-p (75 ohms unbalanced) (DSR-40: 75%, color bar / DSR-

40P: 100%, color bar)

AUDIO CH1/3: XLR 3-pin, male, +4 dBu, 600 ohms loading,

balanced.

AUDIO CH2/4: XLR 3-pin, male, +4 dBu, 600 ohms loading,

balanced.

### REF. VIDEO INPUT

BNC type

1 Vp-p (75 ohms unbalanced)

CONTROL S

Minijack

DV 4-pin jack (i.LINK)

REMOTE

D-sub 9-pin

**PHONES** Stereo minijack

-2 dBu, 8 ohms, unbalanced (when volume is set to

maximum)

### General

Power requirements

DSR-40: DSR-40P: 120 V AC, 60 Hz 220 - 240 V AC, 50 Hz

Power consumption

DSR-40:

40 W, 120 V AC, 60 Hz

DSR-40P:

40 W, 220 - 240 V AC, 50 Hz

(during playback)

Operating temperature

5°C to 40°C (41°F to 104°F)

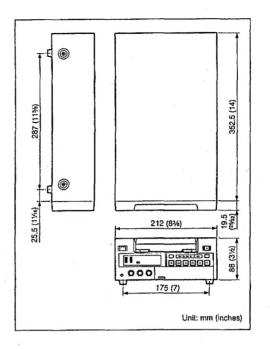
Storage temperature

-20°C to +60°C (-4°F to +140°F) Approx.  $212 \times 98 \times 392$  mm

Dimensions

 $(8 \% \times 3 \% \times 15 \% \text{ inches})$ (w/h/d, including projecting parts

and controls)



Mass

Approx. 5 kg (11 lb.)

Supplied accessories

AC power cord (1) Cleaning cassette (1)

Design and specifications are subject to change without notice.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

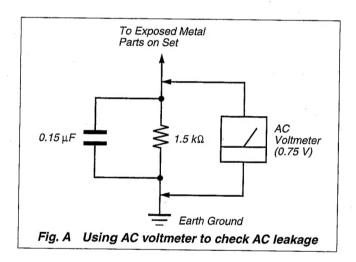
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  ${\mathbb A}$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

### SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- 4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- 5. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 6. Check the B+ voltage to see it is at the values specified.
- 7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



### **LEAKAGE TEST**

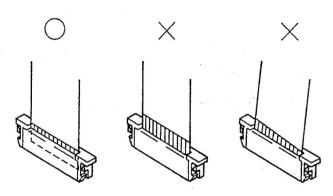
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

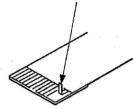
### SERVICE NOTE

### · Note for Repair

Make sure that the flat cable and flexible board are not cracked or bent at the terminal. Do not insert the cable insufficiently nor crookedly.



Cut and remove the part of gilt which comes off at the point. (Take care that there is some pieces of gilt left inside.)



### TABLE OF CONTENTS

Sec	ction <u>Title</u>	<u>Page</u>	Sectio	<u>Title</u> <u>Pa</u>	ıge
SEF	RVICE NOTE	4	•	RE-33, CB-67 Printed Wiring Boards 4-6	31
			•	RE-33, CB-67 Schematic Diagram 4-6	63
			•	VA-106 Printed Wiring Board 4-6	66
1.	GENERAL		. •	VA-106 (IF) Schematic Diagram 4-7	71
			•	VA-106 (VIDEO IN) Schematic Diagram 4-7	′5
	tures		•	VA-106 (VIDEO OUT) Schematic Diagram 4-8	11
	es on Video Cassettes		•	VA-106 (UVIC, DV IN/OUT) Schematic Diagram 4-8	6
	es on Recording /Playing		•	VA-106 (MONITOR OUT) Schematic Diagram 4-8	19
	ation and Function of Parts		•	VA-106 (HI CON) Schematic Diagram 4-9	2
	/back		•	VA-106 (SG SELECT, EVR) Schematic Diagram 4-9	15
Con	nections for Playback	1-3	•	RS-80 Printed Wiring Board 4-9	
Sett	ings for Playback	1-4	•	RS-80 Schematic Diagram	
Play	back Procedure	1-4	. •	FR-158 Printed Wiring Board 4-1	03
	back Functions			FR-158 Schematic Diagram	05
	ording			GL-10 Printed Wiring Board	09
	nections for Recording			GL-10 Schematic Diagram	11
Poor	ing for Recordingording Procedure	1-5		HP-118 Printed Wiring Board4-1	16
Note	es on Usage in the Editing System	1-6		HP-118 Schematic Diagram 4-1 CM-56 Printed Wiring Board 4-1	19
	nections for a Digital Non-linear Editingnections for a Cut Editing System			CM-56 Schematic Diagram 4-1: MD-63, MD-64, MD-65, FP-406	27
Con	nections for an A/B Roll Editing System	1-/	•	Printed Wiring Boards 4-1	20
Adia	usting an Edit Timing	1-0		MD-63, MD-64, MD-65, FP-406	32
Adi	sting the Sync and Subcarrier Phases	1.10		Schematic Diagram	25
	sting Signals			U-1 Printed Wiring Board 4-1	
Heir	ng the Unit as a Recorder	1-11		U-1 Schematic Diagram 4-1	
with	FXE-100/100P/120/120P	1_11	•	U-2 Printed Wiring Board 4-14	<i>1</i> 1
	nging Menu Settings			U-2 Schematic Diagram 4-14	41
Cha	nging the SET UP MENU Settings	1-12		o z concinato Diagram 4-1.	42
Men	u Contents	1-12			
Reco	ommended Settings in the SET UP Menu	1-13	5. A	DJUSTMENTS	
	m Messages		0. /	DOGGTMENTO	
			5-1. M	ECHANICAL SECTION ADJUSTMENTS 5-1	
			5-1-1	Information 5-1	
2.	DISASSEMBLY		1-1 H	ow to Search Reference Pages for Removal 5-1	
	DIOMOCENIDEI		1-2 P	nase Adjustment Mark " PH- " 5-1	
2-1.	Removal of Upper Case	2-1		Preparation for Mechanical Check,	
2-2.	Removal of Front Panel Assembly		0 1 2.	Adjustment and Maintenance 5-2	
2-3.	Removal of VA-106 Board		2-1.	FL Block Assembly	
2-4.	Removal of Power Block		2-2.	Cassette Positions 5-2	
2-5.	Removal of MD Block Assembly		2-3.	Loading/Unloading	
2-6.	Removal of CM-56 Board	2-2	2-4.	Manual Up/Down the FL Block 5-3	
2-7.	Removal of JC-19 Board	2-2	2-5.	Service Jigs List	
2-8.	Removal of RP-228 Board	2-2	5-1-3.	Phase Adjustments	
2-9.	Circuit Boards Location		3-1.	Phase Adjustment	
		. 20	·	(Loading/Unloading Driving Section) 5-6	
			3-2.	Phase Adjustment	
3.	BLOCK DIAGRAMS		·	(S/L Cassette Selection Section) 5-8	
٥.	BEGOR BINGINING		3-3.	Phase Adjustment	
3-1.	Overall Block Diagram 1	2.1		(Mechanism Chassis Upper Surface Parts) 5-10	1
3-2.	Overall Block Diagram 2	. 3-1	5-1-4.	Periodic Check and Maintenance 5-12	,
3-3.	Overall Block Diagram 3	. 3-/	4-1.	Cleaning of Rotary Drum Assembly 5-12	-
<b>0</b> -0.	Overall Block Diagram 5	. 3-11	4-2.	Cleaning of Tape Path System 5-12	
			4-3.	Periodic Checks	2
4.	PRINTED WIRING BOARDS AND		5-1 <b>-</b> 5.	Mechanism Section Checks and Replacements 5-14	
4.			5-1.	Tape Stopper, Motor FPC Assembly and	,
	SCHEMATIC DIAGRAMS		0 1.	Elastic Connector	
			5-2.	Drum Assembly and Drum Base 5-14	
4-1.			5-3.	LM Cover, LM Worm Wheel, LM Holder and	,
4-2.	Printed Wiring Boards and Schematic Diagrams	. 4-5	0 0.	LM Motor Assembly 5-15	
	RP-228 Printed Wiring Board	. 4-5	5-4.	TG3/4 Catcher Block Assembly,	,
	RP-228 Schematic Diagram	. 4-9	J 4.	Pinch Driving Gear and TC Arm Assembly 5-15	
	JC-19 Printed Wiring Board	. 4-15	5-5.		
	JC-19 (AD/DA CONVERTER)		J. J.	Pinch Arm Assembly, Pinch Limiter and Tension Coil Spring (Pinch) 5-16	
	Schematic Diagram		5-6.	HC Arm, HC Roller Assembly,	
	JC-19 (S1 AFC) Schematic Diagram		5 5.	Pinch Retainer, Pinch Cam Gear and	
	JC-19 (U1) Schematic Diagram			TG5/6 Catcher Block Assembly 5-16	
	JC-19 (D1) Schematic Diagram		5-7.	RL Arm and RL Link	
	JC-19 (C1 SPCON) Schematic Diagram	4-37	5-8.	Gooseneck Guard and Gooseneck Arm Assembly 5-17	,
	JC-19 (MODE) Schematic Diagram		5-9.	Tension Coil Spring (TG2), Spring Adjustor,	
	JC-19 (DV IN/OUT) Schematic Diagram			TG2 Spring Hook, TG2 Selection Arm and Damper	
	JC-19 (AUDIO CORE) Schematic Diagram	4-50		Sheet 5-18	
	JC-19 (DIGITAL AUDIO) Schematic Diagram	4-53	5-10.	Tension Coil Spring (TG7), Spring Adjustor and	
	JC-19 (AUDIO D/A, A/D CONVERTER)			TG7 Spring Hook 5-18	
	Schematic Diagram	4-58		2-10	

<u>Section</u>	<u>Title</u>	<u>Page</u>	Section	<u>Title</u>	<u>Page</u>
5-11.	TG2 Retainer, TG2 Arm Assembly (TG2 Plate Spi and ET Magnet), S Tension Regulator Band Asse			Adjusting Connectors (RP 228 Board CN775)	
	and TG2 Laod Arm Assembly			Checking the Input Signals	5-60
5-12.	TG7 Retainer, TG7 Arm Assembly (TG7 Plate Spi	dina	1.	S Video Input	5-60
0-12.	and ET Magnet). T Tongian Begulater Band Asses	nig mbli	2.	Video Input	
	and ET Magnet), T Tension Regulator Band Asset	TIDIY	3-1-5.		
<b>5</b> 40	and TG7 Load Arm Assembly	5-20	3-1-6.		
5-13.	S Reel Table Block Assembly		3-2.	Power Supply System Adjustment	5-62
5-14.	T Reel Holder and T Reel Table Block Assembly		1.	Power Supply Voltage Check,	
5-15.	S Reel Plate Assembly			Power Block (U-2 Board)	5-62
5-16.	T Reel Plate Assembly	5-24	2.	Video/Audio Block Power Supply Voltage Check,	
5-17.	TG1/8 Base Assembly, S Brake and T Ratchet			Power Block (U-2 Board)	5-62
5-18	TG3/6 Roller Assembly and TG3/6 Lock Spring	5-26	3-3.	System Control System Adjustment	
5-19.	FL Joint Gear, TG5/6 Retainer and		1,	Initializing the C, D, E Page Data	5-63
	Capstan Motor	5-26	2.	Input of C Pge Initial Data	5-63
5-20.	FL Selection Arm, FL Relay Gear and FL Joint Ar		3.	Input of D Pge Initial Data	
	Assembly		4.	Input of E Pge Initial Data	
5-21.	Rotary Switch, TC Gear and Relay Gear		5.	Modification of C, D, E Page Data	
5-22.	GL Arm Retainer and GL Arm		6.	Page C Address List	5-64
5-23.	M Slider and M Slider Arm		7.	Page D Address List	
5-24.	TG7 Selection Arm, TG7 Cam Gear and	0 20	8.	Page E Address List	
	T Cam Gear	5-28	0.	age L Address List	5-05
5-25.	Main Cam, TG2 SL Arm Assembly and	3-20	3-4.	Conta Custom Adjustments	F 00
0 20.	Tension Coil Spring (TG2 SL)	E 00		Servo System Adjustments	
5-26.	TG3/4 Arm Block Assembly (TG3/4 Arm Assembly		1.	Switching Position Adjustment (CM-56 Board)	
5-20.			2.	Capstan FG Duty Adjustment (CM-56 Board)	
	TG3/4 Limiter Spring and TG3/4 Gear), TG3/4 Bas	Se	3-5.	Video System Adjustments	
<i>-</i> 07	Block Assembly (TG3/4 Base Assembly)	5-30	3-5-1.	RP-228 Board Adjustments	
5-27.	TG5/6 Arm Block Assembly (TG5/6 Arm Assembly	/,	1.	Recording Current Adjustment (RP-228 Board)	
	TG5/6 Limiter Spring and TG5/6 Gear), TG5/6		2.	PLL fo Adjustment (RP-228 Board)	
	Base Block Assembly (TG5/6 Base Assembly)	5-32	3.	CLK Delay Adjustment (RP-228 Board)	
5-28.	Reel Motor	5-34	4.	AGC Center Level Adjustment (RP-228 Board)	5-68
5-29.	RS Arm Assembly	5-34	5.	AEQ Adjustment (RP-228 Board)	5-69
5-30.	RS Gear Assembly, Mic Press Spring and		6.	PLL Capture Range Adjustment	
	Mic Lever	5-34		(RP-228 Board)	5-70
5-31.	Rack Joint Gear, Rack Holder, Mic Holder,		7.	IC774 41.85 MHz VCO Check (RP-228 Board)	5-70
	Rack (LC) and Rack (SC)		3-5-2.	JC-19 Board Adjustments	5-71
5-32.	Plate Link Assembly	5-36	1.	A/D Converter Reference Voltage Adjustment 1	
5-33.	Roller Shaft Assembly and Roller Belt	5-38		(JC-19 Board)	5-71
5-34.	Lid Opener	5-39	2.	A/D Converter Reference Voltage Adjustment 2	
5-35.	C Door	5-40		(JC-19 Board)	5-71
5-36.	Damper Arm and Tension Spring (DB)	5-40	3.	Y Signal Clamp Reference Voltage Adjustment	
5-37.	Gear (A), Gear (B), and C Worm			(JC-19 Board)	5-71
5-38.	Tension Coil Spring (HS), Tension (DB), Shift Plate	)	4.	CR Signal Clamp Reference Voltage Adjustment	
	Spring and C Sloat Block Assembly		•	(JC-19 Board)	5-71
5-1-6.	Adjustments and Checks	5-42	5.	CB Signal Clamp Reference Voltage Adjustment	
6-1.	Adjustment Position		0.	(JC-19 Board)	5-71
6-2.	Adjustment Order		6.	Playback Y Signal Level Adjustment	,,,
6-3.	Adjustment and Checking Method		0.	(JC-19 Board)	5-72
6-3-1.	Reel Table Height Adjustment		7.	Playback CR Signal Level Adjustment	5-12
	TG2/TG7 Height Adjustment	5-45	,.	(JC-19 Board)	E 70
6-3-3	FWD/RVS Position Adjustment	5-45	8.	Playback CB Signal Level Adjustment	)-12
	TG2/TG7 Electric Tension Regulator Adjustment			(JC-19 Board)	- 70
	FWD/RVS Back Tension Adjustment				
	Adjustment Preparations and	J- <del>-</del> -U		IC422 27MHz XTAL fo Adjustment (JC-19 Board) 5	
000.	RF Waveform Check	E 40		AFC Preliminary Adjustment (JC-19 Board) 5	
6-2-7			11.	AFC Picture Frame Adjustment (JC-19 Board) 5	>-/4
639	Tracking Adjustment	5-50		AFC Adjustment (JC-19 Board)	
6.2.0	Tracking Check	5-51		General Adjustments	)-75
6.0.10	CUE and REV Check	5-52		Playback Y/CR Delay Adjustment	
6-3-10.	Rising Check	5-53		(VA-106 Board) 5	·-75
6-3-11.	Tape Path Check	5-54		Playback Y/CB Delay Adjustment	
				(VA-106 Board) 5	5-75
5-2. SE	RVICE MODE	5-55	3.	Playback Y Signal Level Adjustment	
5-2-1.	Adjusting Remote Commander	5-55		(VA-106 Board) 5	-76
1.	Used Adjustment Remote Commander	5-55		Playback Y Setup Level Adjustment	
	Precautions Upon Using The Adjusting Remote			(VA-106 Board) 5	-76
	Commander	5-55		Playback CR Signal Level Adjustment	
5-2-2.	Data Processing	5-56		(VA-106 Board) 5	-77
5-2-3.	Service Mode	5-57		Playback CB Signal Level Adjustment	
	Emergence Memory Address			(VA-106 Board) 5	-77
	EMG Code (Emergency Code)			Playback Sync Level Adjustment	
				(VA-106 Board)5	-78
5-3. VIE	DEO SECTION ADJUSTMENTS	5-58		Playback Carrier Balance Adjustment	. •
	Preparations Before Adjustment			(VA-106 Board)5	-78
3-1-1.	Equipment Used	5-58		Playback Burst Level Adjustment	. •
3-1-2.	Connection of Equipment	5-58		(VA-106 Board)5	-79
				· · · · · · · · · · · · · · · · · · ·	

<u>Section</u>	<u>Title</u>	<u>Pag</u>
10.	Playback Composite Video Chroma (R-Y Signal Level) Adjustment (VA-106 Board)	5-80
11.	Playback Composite Video Chroma (B-Y Signal Level) Adjustment (VA-106 Board)	
12.	Playback Composite Video Chroma (R-Y Phase) Adjustment (VA-106 Board)	
13.	INT Subcarrier Frequency Adjustment (GL-10 Board)	
14.	Decoder Freerunning Frequency Adjustment (VA-106 Board)	
15.	Recording Y/CR Delay Adjustment (VA-106 Board)	
16.	Recording Y/CB Delay Adjustment (VA-106 Board)	
17.	Recording Y Signal Level Adjustment (VA-106 Board)	
18.	Recording Chroma Decoder HUE Adjustment (VA-106 Board)	
19.	Recording CR Signal Level Adjustment (VA-106 Board)	
20.	Recording CB Signal Level Adjustment (VA-106 Board)	
21.	SYNC Position Adjustment (GL-10 Board)	. 5-85
22.	EXIT Subcarrier Phase Adjustment	
23.	(GL-10 Board)	. 5-85
24.	Y/C Separation Adjustment (VA-106 Board)	. 5-86 E 86
25.	OSD1 Subcarrier Adjustment (VA-106 Board)	. 5-00
26.	OSD2 Subcarrier Adjustment (VA-106 Board)	. 5-67
3-5 <b>-</b> 4.	DIST Chark	. 5-8/
	BIST Check	. 5-88
1.	Playback System Check	
_	(JC-19, RP-228 Boards)	. 5-88
2.	Record System Check	. 5-89
3-6,	Audio System Adjustments	5-90
1.	E-E Level Check	5-90
2.	Playback Level/Indicator Check	5-90
3.	Recording/Playback Check (Audio Lock Mode)	5-91
3-7.	Arrangement Diagram for Adjustment Parts	5-92
n Dr	TRAID DADTO LICT	
	EPAIR PARTS LIST	
5-1. Ex	ploded Views	6-1
6-1-1.	Overall Assembly	6-1
6-1-2.	Chassis Assembly	6-2
6-1-3.	MD Block Assembly	6-3
6-1-4.	FL Cassette Compartment Assembly	6-4
6-1-5.	Mechanism Chassis Assembly (1)	
	(Top Side View (1))	6-5
6-1-6.	Mechanism Chassis Assembly (2)	00
	(Top Side View (2))	6.6
6-1-7.	Mechanism Chassis Assembly (3)	0-0
010	(Top Side View (3))	6-7
6-1 <b>-</b> 8.	Mechanism Chassis Assembly (4)	
	(Bottom Side View (1))	6-8
6-1-9.	Mechanism Chassis Assembly (5)	
	(Bottom Side View (2))	6-9
-2. Ele	ctrical Parts List	6-10
ardware	List	6-48
		0-40

Overview

The DSR-40/40P is a '/- inch digital videocassette recorder that uses the DVCAM digital recording format. This system achieves stable, superb picture quality by digitally processing video signals that are separated into color difference signals and luminance

separated into color difference signals and luminance signals (component video).

When connected to Sony Edit Station<sup>TM</sup>, the unit serves as part of powerful non-linear editing system<sup>19</sup>. The unit is equipped with a full-fledged analog interface, to support hybrid systems that combine ventional analog equipment with digital equipment

The DSR-40/40P's main features are described below.

### **DVCAM Format**

DVCAM is based on the consumer DV format, which uses the 4:1:1 component digital format (DSR-40) or the 4:2:0 format (DSR-40P), and provides a 1/+-inch digital recording format for professional use.

### High picture quality, high stability

Video signals are separated into color difference signals and luminance signals, which are encoded and compressed to one-fifth size before being recorded to ensure stable and superb picture quality.

Because the recording is digital, multi-generation dubbing can be performed with virtually no deterioration of quality.

### Wide track pitch

The recording track pitch is 15  $\mu$ m, fully 50 percent wider than the DV format's 10- $\mu$ m track pitch. Thanks to this feature, the DVCAM format sufficiently meets the reliability and precision requirements of professional editing.

Non-linear editing
 This is an editing method that uses video and audio signals that have been digitally encoded and recorded on a hard disk as digital data. When compared with conventional (linear) editing methods, non-linear editing offers vasily improved efficiency in editing operations, such as by eliminating tape transport time.

6<sup>ce</sup> Chapter 1 Overview

### High-quality PCM digital audio

PCM recording makes for a wide dynamic range and a high signal-to-noise ratio, thereby enhancing sound

nign signal-to-house ratio, thereby enhancing soun quality.

There are two recording modes: 2-channel mode (48-kHz sampling and 16-bits linear code), which offers sound quality equivalent to the DAT (Digits Audio Tape) format, or 4-channel mode (32-kHz sampling and 12-bits nonlinear code).

### Playback compatibility with DV format

A DV cassette recorded on a DV-format VCR can be played back on this unit. (Cassettes recorded in LP mode cannot be played back.)

### Choice of two cassette sizes

The unit can use both standard-size and mini-size DVCAM cassettes.

## Facilities for High-efficiency Editing

The unit provides an abundance of functions that enhance editing efficiency and precision.

### Remote control

The unit can be operated by remote control from an editing controller that supports the RS-422A interface or from a SIRCS<sup>11</sup>-system remote control unit such as the optional DSRM-10, or DSRM-20.

SIRCS (Sony integrated Remote Control System)
 A command protocol to remote control Sony
 professional videocassette recorders/players.

### High-speed search function

If you use the optional remote control unit, the unit has a picture search function that allows you to view color picture at playback speeds up to 14 times normal speed (DSR-40P) in forward and reverse directions.

When remote-controlling this unit in shuttle mode from a different process.

from an editing controller or a remote controller, you from an estimp controller of a remote controller, you can search at any speed in the range 0 (still) to 14 times normal (DSR-40) or 17 times normal (DSR-40P) in both directions. You can also search frame-by-frame in jog mode. You can also hear playback audio.

### Jog audio function

If you use the optional remote control unit, audio can be monitored at various playback speeds when in jog mode. The audio signals are once stored in memory and then played back at the same rate as the search speed. This allows you to use audio playback to find the desired edit points.

### Other Features

### Analog output interfaces

The unit comes with analog output interfaces enabling it to be connected to analog video and audio equipment.

• Analog video: Include composite video, component

- video (Y/R-Y/B-Y), and S-video outputs.

   Analog hudio: The XLR-type (3-pin) analog audio outputs are provided.

"Power-on playback" function (in repeat

You can start playback immediately when the unit

### Compact size

The unit achieves compact size suitable for using on a demonstration or a bridal. The unit is also equipped with basic functions that are needed for videocassette recorders and players used in professional digital video

### Menu system for functionality and operation settings

The unit provides a menu system to make its various functions easier to use and set up its operation conditions.

### Superimposition function

Time code, operation mode indications, menus, alarm messages, and other text data can be superimposed and output in analog composite video signals.

### Easy maintenance function

The unit's digital hours meter functions include two kinds of lally operations for head drum usage hours, and tape threading/unthreading times. The tally results can be viewed on the video monitor.

Chapter 1 Overview

### Features

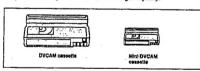
### Notes on Video Cassettes

### Usable cassettes

Use Standard-DVCAM cassettes or Mini-DVCAM cassettes with this

Ose Standard-DV-CAM cassettes of Min-DV-CAM cassettes with this VCR. PDV-184ME can record programs for 184 minutes and PDVM-40ME can record for 40 minutes.

You can get the highest quality pictures with this digital videocassettle recorder using DVCAM cassettes. You may not be able to get as good quality with other cassettes. We recommend using DVCAM cassettes so that you can record your one-time events in highest quality.

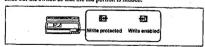


### Cassette memory

Cassette memory is an optional feature that is mounted on some Standard DVCAM cassettes and Mini DVCAM cassettes. When you record a program, the recording date and time, and the programs' position on the tape are stored in the cassette memory so that you can quickly locate the program later on. CH16K indicates that you can use the cassettes 16 Kbits of data can be stored on. On this VCR, you can use the cassettes up to 1K Khits of data can be mounted on. 16 Kbits of data can be mounted on

### To save a recording

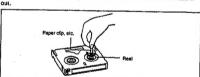
To prevent accidental erasure of a recording, slide in the safety switch on the cassette so that the red portion becomes visible. To record on a tape, slide out the switch so that the red portion is hidden.



[DVCAM] . DV, "DV and CIII are trademarks.

### Checking the tape for slack

Using a paper clip or a similar object, turn the reel gently in the direction shown by the arrow. If the reel does not move, there is no slack. Insert the cassette into the cassette compartment, and after about 10 seconds take it to slack. Insert the



### Notes on Recording / Playing

### Copyright precautions

### On recording

On recording
You cannot record any software having copyright protection signals on this
VCR. If you start recording protected video and audio signals, a warning
message appears on the monitor screen and the VCR stops recording.

### On płayback

When you play back software having copyright protection signals on this VCR, you may not be able to copy it onto other equipment.

### Limitations caused by the difference in format

This VCR can record, play back and edit the tapes recorded in DVCAM format. It can also play back the tapes recorded in DV format (SP mode). However, due to the difference in format, you may not be able to record or edit some tapes affected by recording conditions of the tape (e.g., A tape originally recorded in DV format is dubbed in DVCAM format). For details, refer to "Compatibility of DVCAM and DV format" on page 62.

### No compensation for contents of the recording

Contents of the recording cannot be compensated for if recording or playback is not made due to a malfunction of the VCR, video tape, etc.

You cannot play back a DVCAM tape recorded in other color systems on this VCR.

© Cassette compartment
Accepts standard-size or mini-size DVCAM digital
videocassettes. When using a mini-size cassette, insert
it into the center of the compartment.
For details of usable cassettes, see page 8.

ON/STANDBY switch and ON/STANDBY lamp Press this switch to turn on the power, and the ON/ STANDBY lamp lights in green. Press it again to turn to standby mode, and the lamp lights in red.

When the REMOTE/LOCAL switch is set to REMOTE; you cannot turn the unit to standby mode.

PHONES Jack (stereo minljack)
Connect stereo headphones for headphone monitoring during recording or playback.
The audio signal you want to monitor can be selected with the AUDIO MONITOR selector inside of the door (3).

10<sup>G8</sup> Chapter 1 Overview

### O PHONE LEVEL control knob

Controls the volume of the headphones connected to the PHONES jack.

AUDIO INPUT LEVEL control knobs

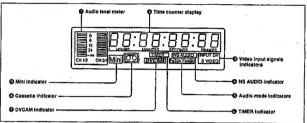
When recording, you can use these knobs to set audio input levels for CH-1 (channel 1) and CH-2 (channel 2), respectively.

© COUNTER RESET button

Press this button to reset the tape counter in the display window to "0:00:00 (0:000000)". This button does not work when displaying the time code or the remaining time.

Tess this button to eject a cassette.





• Audio level meter Indicates the recording level during recording or BE mode, and the playback level during playback. When the audio level exceeds 0 dB, the red indicator lights.

If you play back the tape whose audio was only recorded on channel 2, the audio level meter for CH2/4 may not function.

- Time counter display
  Indicates the following:

  \*Time data: count value of the time counter, time code
  and remaining time.

  \*Alarm messages (see page 55).

  \*Messages for self-diagnosis function (see page 59).

- For DSR-40P: Time code is set to the non drop frame
- mode only.

  Time code is indicated as follows:

  Drop frame: "00:00.00:00" (DSR-40 only)

  Non drop frame: "00:00:00:00"

## Video input signals indicators Indicates the currently selected video input signals. INPUT VIDEO, INPUT S VIDEO, or INPUT DV

O NS (Non Standard) AUDIO Indicator Lights when the VCR plays back a tape whose audio recording was made in the unlock mode, or when unlock mode signals are input through the DV jack.

For details of unlock mode, see page 62.

- Audio mode Indicators
  Indicates the audio mode during playback or recording
  or while in EE mode.
   During playback it indicates the audio mode in which
  the tape was recorded.
- the tape was recorded.

  During recording or while in EE mode, it indicates
  the currently selected audio recording mode. You can
  select audio recording mode by setting "AUDIO
  MODE" ment (see page 53).

  F332k: Lights when playing the tapes recorded in
  4-channel mode, or recording a tape in 4-channel
- mode. Fs48k: Lights when playing the tapes recorded in 2-channel mode, or recording a tape in 2-channel

When recording in 4-channel mode on this VCR, audio signals are recorded only in channels 1/2.

### TIMER indicator Lights when setting the TIMER switch to REPEAT.

## **O DVCAM indicator**Lights except playing back the DV-formatted tapes.

@ Cassette Indicator Cassette indicator
Lights when inserting a digital video cassette available for this VCR. It flashes when ejecting a cassette.

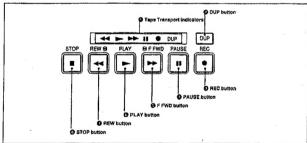
Mini indicator
 Lights when inserting mini-size digital video cassette.

Chapter 1 Overview 1100

### Location and Function of Parts

### 2 Tape transport control section

When the tape reaches to its beginning or its end by



### 1 Tape Transport indicators

### O DUP (duplicate) button Use this button to make a work tape having the same

time codes as the source tape.
For details on duplication, see page 28.

### @ REC (record) button

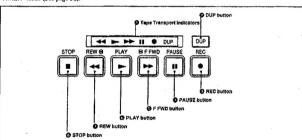
When you press the PLAY button while holding down this button, the indicator lights and recording begins.
To set the VCR to recording pause mode, press the
PAUSE button while holding down this button.

PAUSE button When you press this button, the indicator lights, and the VCR is set to pause mode.

♠ F FWD (fast forward) button When you press this button, the indicator lights and the tape is fast forwarded. During fast forward, the picture does not appear on the monitor (you can see the picture of the EE mode during fast forward). To search forward, hold this button down during fast forward.

12<sup>ca</sup> Chapter t Overview

## rewinding or fast-forwarding, the unit turns to playback pause mode. Then, the playback pause mode is released after the time which is set at "STILL TIMER" menu (See page 52).



© PLAY button
When you press this button, the indicator lights and playback begins.
If you press this button while holding down the REW button during stop, the tape is rewound to its beginning and starts playing automatically (during rewind, the REW indicator lights and the PLAY indicator flashes).

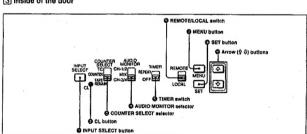
REW (rewind) button
When you press this button, the indicator lights and the
tape starts rewinding. During rewind, the picture does
not appear on the monitor (you can see the picture of
the EE mode during rewind).
To search backward, hold this button down during

rewind.

If you press the PLAY button while holding down this button during stop, the tape is rewound to its beginning and starts playing automatically (during rewind, the REW indicator lights and the PLAY indicator flashes).

Press this button to stop the current tape transport

### 3 Inside of the door



### 1 INPUT SELECT button

Selects input signals. Each press of this button cycles through three video signal selection options: video, Svideo, and DV input. When you select one of these options, the corresponding indicator in the display

© CL (Clear) button

Press this button to make the unit to the state of reconnecting the AC power cord. When you press this button, the setting in the menu is not initialized.

© COUNTER SELECT selector Select the type of time data in the time counter display. TC: Time code COUNTER: Count value of the time counter TAPE REMAIN: Remaining time

AUDIO MONITOR selector

Use to select the audio track you want to hear when playing back a tape recorded in 4-channel mode (Fs32k).

CH-1/2: Channels 1/2 only
MIX: Channels 1/2 and channels 3/4 (mix)
CH-3/4: Channels 3/4 only

● TIMER switch
Use to select Auto Repeat using an external AC timer (not supplied).

(not supplied).

REPEAT: When the power is supplied to this VCR, a tope rewinds to its beginning automatically and playback starts. The VCR repeats the playback from the beginning to the first index (if there is no index on the tape, to the unrecorded portion; if no unrecorded portion, to the tape end). Auto repeat also functions if you set this switch to REPEAT during related to the supplied to

during playback.

OFF: Auto Repeat is released.

### G REMOTE/LOCAL switch

☑ REMOTE/LOCAL switch Selects whether the unit is operated from its front panel or from external (remote) equipment. REMOTE: The unit is operated from an editing controller connected to the REMOTE connector. Available tape transport buttons (on the front panel or optional remote control unit) are set in the next.

LOCAL: The unit is operated from its front panel, or from a SIRCS-system remote control unit connected to the CONTROL S jack.

Chapter 1 Overview 136

■ MENU button
Press this button to display the meau on the monitor screen. Press it again to return from the menu display to the usual display.

### Note

If you set the REMOTE/LOCAL switch to REMOTE while the menu display is on the monitor, it returns to the usual display.

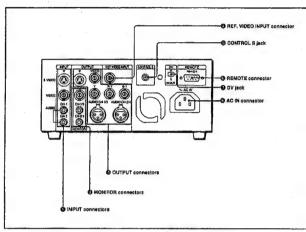
On how to use the menu, see Chapter 5 "Menu Settings".

SET button

Press this button to save selected menu items to the unit's memory.

② Arrow (介 ♦) buttons
Use these buttons to move around the menu items.

### Rear Panel



### INPUT connectors

Input video and audio signals. To connect a VCR equipped with the S-video output jack, use the S VIDEO jack on this VCR.

### MONITOR connectors

Output video and audio signals for monitoring.

14<sup>28</sup> Chapter 1 Overview

6 OUTPUT connectors
Output video and audio signals. To connect a VCR equipped with the S-video input jack, use the S VIDEO jack on this VCR. To connect a VCR equipped with the component input con Y, R-Y, B-Y connectors on this VCR.

Note on EE mode
When the S-video, video, or DV signal is input, this VCR cannot output component signals. You can only output the component signal during normal playback.

♠ REF.VIDEO INPUT connector (BNC-type) input a reference video (black burst) signal.

© CONTROL S Jack
When controlling this VCR from an optional remote control unit such as the DSRM-10/20 (not supplied), connect the unit to this rack.

SIRCS-system has the same function as CONTROL S-system.

## ♠ REMOTE connector (D-sub 9-pin) Connect an editing controller with the RS-422A interface for remote-control of this VCR.

◆ DV jack
The DV jack is i.LINK compatible. Use when the
equipment connected to the VCR has a DV jack.
If you connect the VCR and the other equipment using
DV jacks, you can minmize deterioration of picture
quality during dubbling, or capturing still pictures by
digital processing. For details, refer to the instruction
manual of the equipment you use.

L is a trademark of Sony Corporation and indicates that this product is in agreement with IEEE1394-1995 specifications and their revisions.

AC IN connector

Connect to an AC power outlet using the supplied power cord.

pter t Overview 15<sup>de</sup>

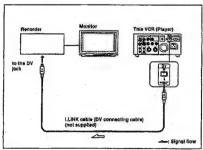
### Playback

This section describes the necessary connections, settings and operations to perform playback on this unit. The same settings and operations apply whether you are using the unit as part of an editing system, for dubbing, or as a stand-atone videocassette player.

### Connections for Playback

### To digital video equipment with the DV jack

The video and audio signals are sent with hardly any degradation, enabli-high-quality recording. The signal flow is automatically detected so you need not make separate connections for input and output.



- The external lock function of this unit only supports the standard sync signals. With the DV connection, select the DV input with the INPUT SELECT button on this VCR to prevent malfunction resulting from noise, etc.

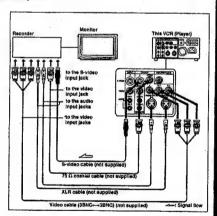
- noise, etc.

  Set DV EE OUT in the menu to OFF (see page 52).

  With the DV connection, the sound is recorded in the same audio recording mode as that of the source tape.

  With the DV connection, the information (recording date, cameorder data, etc.) recorded on the source tape is transmitted from this VCR (player).

To video equipment without the DV Jack



- When you connect output jacks of the recorder to input jacks of this VCR, select the input correctly to prevent a humming noise.

   Distorted signals (e.g., when played back at a speed other than normal) will not be recorded properly.

   The indications (Time code, alarm messages, and menu, etc.) displayed on the monitor screen are output only via the MONITOR connector.

   If the DV input is selected, you cannot perform the playback synchronized with the video reference (black burst) signal.

### Settings for Playback

### Preparation on the player (this VCR)

- 1 Power on the video monitor, then set the monitor's input according to the input signals from the recorder.
- 2 Set up the recorder. For details, see "Prepai
- 3 Power on this unit by pressing the ON/STANDBY switch.

The ON/STANDBY lamp lights in green.

4 When you play back a tape recorded in 4-channel mode (Fs 32k), set the AUDIO MONITOR selector to MIX (see page 13). Then select the precise balance between the tracks with the AUDIO MIX BALANCE in the menu (see page 53).

- Notice

  With the DV connection, the playback VCR's AUDIO MONITOR
  (sound selection) and AUDIO MIX BALANCE (audio balance
  adjustment) do not function on the source audio output through the DV
- jack.

  You cannot change the input signal selection during playback or playback

### Preparation on the recorder

- Insert a tape for recording.
   Select the video and audio input signals to be recorded.

Editing is not possible with a tape that is copyright protected.

18<sup>08</sup> Chapter 2 Playback and Recording

Chapter 2 Playback and Recording 1906

## **Auto Repeat**

Playback Procedure

Notes

When controlling this unit from an editing controller connected to the REMOTE connector, set the REMOTE/LOCAL switch to REMOTE.

After checking the tape for slack, hold the cassette so that the tape window is facing upward, then insert it into this unit as illustrated below.

For details on checking the tape for slack, see page 9.

When not, set it to LOCAL.

Do not insert the cassette forcibly. The VCR may be damaged.

The cassette is automatically drawn into the unit.

This starts the playback operation.

2 Press PLAY.

### This VCR can repeat the playback of all, or a part of the tape.

1 Set the TIMER switch on the front panel to REPEAT.

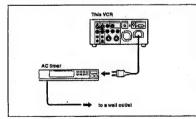
The TIMER indicator on the front panel lights.

- 2 Press REW to rewind the tape to its beginning.

Playback starts. The VCR repeats the playback from the beginning to the first index (if there is no index on the tape, to the unrecorded portion; if no unrecorded portion, to the tape end).

Auto Repeat using an external AC timer
If you connect an external AC timer (not supplied) to this VCR, you can repeat playback automatically at the preset time.

1 Connect an external AC timer (not supplied) to this VCR.



2 Set the TIMER switch on the front panel to REPEAT.

The TIMER indicator in the display window lights.

3 Set the start time using the external AC timer.

At the preset time, the power turns on, and Auto Repeat playback starts automatically within one minute. The VCR repeats the playback from the beginning to the first index (if there is no index on the tage, to the unrecorded portion; if no unrecorded portion, to the tape end).

## Playback

### Playback Functions

You can enjoy various playback functions using the optional remote

For details, refer to the operating instructions supplied with the remote control

Playing at various speeds (JOG)
You can play at various speeds, or frame by frame.

Searching (SHUTTLE)
You can easily locate the desired scene, and you can quickly and accurately determine edit points.

Searching using the Index function (DSRM-20 only)
Three kinds of search are available on this VCR:

- Searching for the beginnings of recordings: Index search

- Searching for a point on the tape where the recorded date changes:

- Date search

  Searching for scenes recorded in the photo mode with a digital
- camcorder: Photo search

When S-video or video input is selected and no signal is input in search mode, the search screen becomes noisy. In such cases, input the signal or select DV input.

For a description of search operations via external equipment, see the equipment's operating instructions.

Displaying tape information (DSRM-20 only)
If you record on a tape using a Sony digital camcorder DSR-200/200P/
200A/200A/P/D100/PD100P, camcorder data (the shutter speed, program
AE mode, white balance, its and gain) can be recorded on the tape. You
can check these data during playback on this VCR.

2008 Chapter 2 Playback and Recording

- Notes
   The VCR cannot search for an index or unrecorded portion within 20
- \*The VCR cannot search for an index or unrecorded portion within 20 seconds from the beginning of the tape.

  \*While a tape is running, do not turn off the power using an AC timer. The VCR and a tope may be damaged. When turning off the power of the VCR, make sure to press the STOP button on this VCR first to stop the tape transport, then turn off the power.

To stop Auto Repeat Press the STOP button.

To release Auto Repeat mode Set the TIMER switch to OFF.

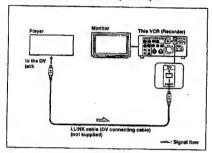
### Recording

This section describes the necessary connections, settings and operations to perform recording on this unit. The same settings and operations apply whether you are using the unit as part of an editing system, for dubbing, or as a stand-alone recorder.

### Connections for Recording

To digital video equipment with the DV jack

The video and audio signals are sent with hardly any degradation, enabling high-quality recording. The signal flow is automatically detected so you need not make separate connections for input and output.



- With the DV connection, the sound is recorded in the same audio recording mode as that of the source tape. To record in a different audio recording mode from the source tape, use the INPUT connectors instead.

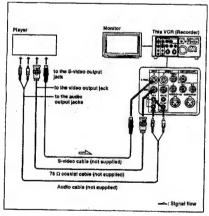
  With the DV connection, tape information (recording date, camcorder data, etc.) recorded on the source tape is transmitted from the other VCR (player). As a result, when you play back a recorded tape and press the DATA CODE button on the optional DSRM-20 remote control unit, the same tape information recorded on the source tape is displayed on the monitor screen. However, contents of the cassette memory are not transmitted. In addition, the time code is newly recorded on the tape on this VCR, except when copying a tape in Duplication mode.

22<sup>G8</sup> Chapter 2 Playback and Recording

Chapter 2 Recording and Playback 23GB

### Recording

To video equipment without the DV jack



### Notes

- When recording the analog input signals, this VCR can digitally output the signals from the DV jack for backup. Set DV EE OUT in the menu to the signals from the DV jack for backup. Set DV EE OUT in the menu to ON (see page 52).

  When you connect output jacks of this VCR to input jacks of the player, select the input correctly to prevent a humming noise.

  Distorted signals (e.g., when played back at a speed other than normal) will not be recorded properly.

  The indications (Time code, alarm messages, and menu, etc.) displayed on the monitor screen are output only via the MONITOR connector.

### **Settings for Recording**

Preparation on the recorder (this VCR)

- Disc.

  Defore recording, set the clock on the VCR so that the recording time can be written into the index signal. You can set the clock by setting the CLOCK SET ment (see page 53).

  When controlling this unit from an editing controller connected to the REMOTE connector, set the REMOTE/LOCAL switch to REMOTE. When not, set it to LOCAL.

  \*Editing is not possible with a tape that is copyright protected.

- Power on the video monitor, then set the monitor's input according to the input signals from this unit.
- 2 Set up the player to play back a tape.
  For details, see "Preparation on the player" on the next page.
- 3 Power on this unit by pressing ON/STANDBY switch.

The ON/STANDBY lamp lights in green.

4 Use the COUNTER SELECT selector to select the type of time data to

Type of time data	Set the selector to
Time code	TC

5 Select the video and audio input signals to be recorded.

Press INPUT SELECT to select the desired signal. Each press of this button cycles through three signal selection options: video, 3-video, and DV input. Each selection is shown by a lit indicator in the display

Once you have started recording, you cannot change the input signal selection (except during recording pause mode).

6 When using the line connections (INPUT connectors), select the audio

Select the desired mode by setting the AUDIO MODE menu.

Audio mode	Set the menu to	
2-channel mode	Fs48k	
4-channel mode	Fs32k	

On how to use the menu, see Chapter 5 "Menu Sattings"

### Notes

- In the DVCAM format, there are two audio recording modes, with either two channels at 48 kHz or four channels at 32 kHz. It is not possible to select other modes (for example with four channels at possible 48 kHz).
- 48 KHz).

  When recording in 4-channel mode on this VCR, audio signals are recorded only in channels I/2.

  Once you have started recording, you cannot change the audio mode
- 7 Use the AUDIO INPUT LEVEL control knobs to adjust audio input

Watching the audio level meter (see page 11), adjust the level so that the meter does not indicate higher values than 0 dB when the audio signal is at its maximum.

When the level exceeds 0 dB, sound distortion occurs.

With the DV connection, the recorder VCR's AUDIO MODE (sound selection) and AUDIO INPUT LEVEL (audio balance adjustment) do not

### Preparation on the player

- Insert a source tape.
   If the player VCR has an EDIT switch, set it to ON.
   Turn off the on-screen display.

With the DV connection, the playback VCR's AUDIO MONITOR (sound selection) and AUDIO MIX BALANCE (audio balance adjustment) do not function on the source audio output through the DV jack.

266 Chapter 2 Recording and Playback Chapter 2 Recording and Playback 27<sup>GB</sup>

### Recording

### Duplication

If you copy a source tape, using the DUP (duplicate) button on this VCR, you can copy the time code recorded on the source tape as they are. You can easily make a work tape having the same time codes as the source

tape. The duplicate function on this VCR works only when using a source tape recorded in DVCAM format and making DV connections.

- 1 Connect this VCR and the other (playback) VCR, using an i.LINK cable (DV connecting cable) (not supplied) and select DV with the INPUT SELECT selector on this VCR.
- 2 Locate the points where you want to start playback and recording.
- 3 Press STOP on this VCR to stop the tape transport operation.
- 4 Press and hold DUP on this VCR, and press PLAY.

The DUP indicator flashes and this VCR enters duplicate-standby mode.

- If the other (playback) VCR has already started playback, the DUP
- indicator lights and duplication starts immediately.

  If the other (playback) VCR is in the playback pause mode, duplication starts immediately and this VCR continues to record a still pleture and a certain time code.
- 5 Press the play button on the other VCR to start playback.

The DUP indicator on this VCR lights and duplicate starts.

To adjust the point where duplication starts
In step 4 above, press and hold the DUP button instead of the PLAY
button, and press the PAUSE button. This VCR remains recording standby
mode until you press the PAUSE button again.
After the other VCR starts playback, press the PAUSE button at the point
where you want to start duplication.

To stop duplication Press the STOP button.

### Recording Procedure

After checking that the cassette's safety switch is set to write enabled position and the tape for slack, hold the cassette so that the tape window is facing upward, then insert it into this unit.

For details of the cassette's safety switch, see page 8. For details of checking the tape for slack, see page 9.

The cassette is automatically drawn into the unit and the tape is wound round the head drum. The tape is stationary while the head drum rotates.

2 Press the playback button on the player.

This starts the player's playback operation.

3 Press and hold REC on this VCR, and press PLAY.

This starts the recorder's recording operation.

To stop recording Press the STOP button.

- District Dis
- source tape. Locate the recorded portion on the source tape, then start copying.

  The recording does not stop the moment you press the STOP button to stop editing. The source picture may be recorded a little longer than you expected.

  If you duplicate a tape by using two DSR-40/40Ps, set DV EE OUT in the menu of the player to OFF (see page 52).

  The index signals are not recorded when the duplication starts.

  If you set the REMOTE/LOCAL switch to REMOTE during duplication, the tage stops.

- the tape stops.

### Notes on Usage in the Editing System

If you use the unit in an editing system, the following functions are limited.

### Notes on general

- Component signals are only output during playback or when selecting
   DV input. This unit cannot be used as a converter from analog input to
- myst. This unit cannot be used as a converter from analog input to component output.

  This unit is not equipped with the synchronization function. Adjust the edit timing with the editing controller, and set sync grade to Preroll & Play.
- Pause mode will be released after the chosen time in the menu to protect
- Pause mode will be released after the chosen time in the menu to protect the tape except when using the unit in an editing system.

   When AUTO REPEAT is set to ON, and the tape reaches to its end point by fast-forwarding, the jog dial control is not available from external equipment connected to the REMOTE connector.

   You cannot change input signal selection during playback or playback

- You cannot change input signal selection during playback or playback
  pause mode.
   When S-video or video input is selected and no signal is input in search
  mode, the search screen becomes unstable.
   When the tape reaches to its beginning or end using the REW or F FWD
  button, the unit turns to playback pause mode at the point in a few
  preceding seconds from its beginning or end.

### Notes on connection

- Notes on connection

  When you use this unit as a recorder of a system with the FXE-120 whose version is 1.0, this unit cannot be used in the drop frame system. If you want to use it in the drop frame system, upgrade the FXE-120 to version 1.01 (Only for DSR-40).

  When inputting a composite or S-video signal, a composite or S-video output signal in EE mode is a through signal of the input.

  When inputting a composite or S-video signal, a component signal in EE mode is not output. Component output is only available during playback or when selecting DV input.

  If the unit turns off when AUTO OFF has been set to OFF, the operations cannot be available with equipment connected to the

- operations cannot be available with equipment connected to the REMOTE connector. Turn on the power again and perform the
- operation.

  When inputting a DV signal, and outputting a composite or S-video signal in EE mode, only the color burst signal is exchanged.

  When inputting a DV signal, the unit does not perform a playback synchronized with the external sync signal. This playback is only available when selecting S-video or video input.

- Notes on editing

   With the DV connection, the editing accuracy is less than analog editing
- \*With the D \* Social accuracy.
   This unit is not equipped with the first edit function.
   Since this unit does not support CTL, the time code of the recorded tape becomes out of sequence and you cannot use it for editing. In such case, adjust the editing IN point.

30<sup>6N</sup> Chapter 3 Using the Unit as a Player in an Editing System

### Settings on editing control unit

When connecting an editing control unit, make the setting as follows, according to the model.

### FXE-100/120

Set													
1	2	3	4	5	6	7	8	8	10	11	12 - 13	14	15

### 80 30 00 98 05 05 DA 8A DA 08 FE 00 BD 5A FF

### FXE-100P/120P Set the VCR device constants as follows:

-	_	_	_			_								
1	2	3	4		8	7	<u>. 8</u>	9	10	11	12	13	-14	15
81	30	00	70	05	05	0A	ÐΑ	0A	08	FE	00	80	5A	FF

## BVE-600 (NTSC model) Set the VCR device consta

1	2	3	4	5	6	7	8	. 8	10	11-	12	13	14	15
80	30	00	96	05	05	0A	8A	0A	09	FE	00	80	5A	FF

### BVE-600 (PAL model)

Set the VCR device constants as follows:

1	2	3	4	5	6	7	8	9	.10	11	12	13	.14	:15
81	30	00	7D	05	05	DA	8A	DA	09	FE	00	80	5A	FF

### RM-450/450CE

Set the DIP switches as follows:

7	6	5	4	3	. 2	- 1	. 0
OFF	-	T-	OFF		-		<del> </del> -

### 7 8 5 4 3 2 t OFF -- OFF ON OFF OFF ON

-				_	,	_	-
7	6	5	4	3	2	1	ĺ

If the edit timing is out of adjustment, change the setting of the numbers 0 to 2 of the right switch.

Chapter 3 Using the Unit as a Player in an Editing System

### Connections for a Digital Non-linear Editing

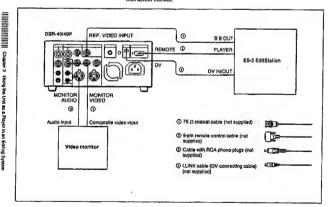
The unit can be connected to an ES-3 EditStation to configure a digital

non-linear editing system. You can transfer video, audio, time code, and other compressed data from this unit to the ES-3.

The unit can transfer index pictures recorded on tape and ClipLink log data stored in cassette memory to the ES-3 in an instant.

The following figure shows a connection diagram for non-linear editing system in which this unit serves as the player.

For connections of the ES-3 and its peripheral devices, refer to the ES-3



Setting of USH-40/40P			
	Switch	Setting	
	REMOTE/LOCAL	REMOTE	

### Connections for a Cut Editing System

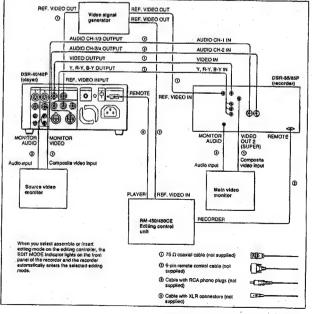
The following figure shows a cut editing system configuration that ut this unit as the player and a DSR-85/85P as the recorder. For details of connecting devices other than the DSR-40/40Ps, refer to the instruction manual of each device.

### Notes

- · When S-video or composite input is selected, S-video or composite
- output is a through signal,

  The preroll time of the setting on the RM-450/450CE is required for more
- than five seconds.

  Set RS-422 CUE-UP MODE to WITH VIDEO in the DSR-40/40P's SET UP menu for improving the editing accuracy.



 $32^{\textit{OS}}$  . Chapter 3 Using the Unit as a Player in an Editing System

ter 3 Using line Unit as a Player in an Editing System 33G

Settings on the DSR-49/40P (player) and DSR-85/85P (recorder)
| Switch | recorder | player |
| REMOTE/LOCAL | REMOTE | REMOTE |

For details, refer to the instruction manual of DSR-85/85P.

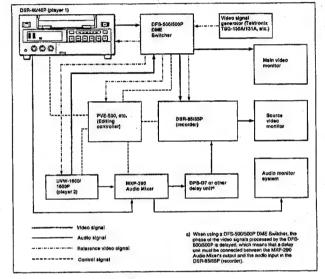
### About reference video signals

In order to provide stable video and audio signals for analog editing, it is necessary for the built-in time base corrector (TBC) to operate correctly. To ensure this, input a reference video signal synchronized with the video signal to the REF, VIDEO INPUT (IN) connector.

### Connections for an A/B Roll Editing System

The following is an example configuration of A/B roll editing system using the DSR-40/40P and DSR-85/85P. In this configuration, the DSR-40/40P is used as player 1, the UVW-1600/1600P (an analog Betacam videocassette player) as player 2, and the DSR-85/85P as recorder. To create a final tape (a tape that contains a completely packaged program) in Betacam format, you can use a Betacam VCR such as the UVW-1800/1800P as the recorder.

The purpose of the following figure is to clearly indicate the flow of signals among the component devices in this system. The specific connections and DSR-85/85P (recorder) settings for this system are described on the following pages.



Note

Use the recorder equipped with the synchronization function.

Chapter 3 Using the Unit as a Player In an Editing System 35<sup>ca</sup>

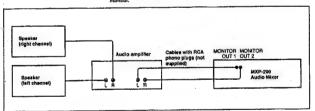
 $34^{68}$   $\,$  Chapter 3  $\,$  Using the Unit as a Player in an Editing System

### Connections for an A/B Roll Editing System

### Audio monitor system connections

The following shows an example of audio monitor system connections.

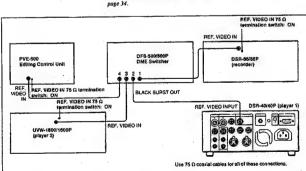
For details of these connections, refer to each connected device's instruction manual.



### Reference video signal connection

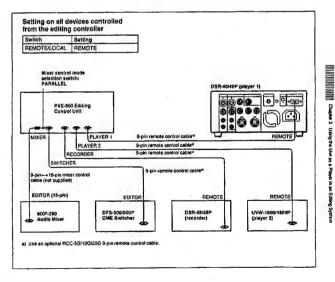
When you perform recording or editing, be sure to use a reference video signal.

For details of the reference video signals, see "About reference video signals" on page 34.



### Control signal connections

The following shows an example of control signal connections to enable the editing controller to control all other A/B roll editing system devices.



Chapter 3 Using the Unit as a Player In an Editing System 37<sup>69</sup>

Switch	Setting
AUDIO IN 600 D ON/OFF	ON
AUDIO IN -6 dBu/0 dBu/+4 dBu	Normally +4 dBu

For details of the videolaudio input and audio mode settings, refer to the instruction manuals for the devices used.

38<sup>08</sup> Chapter 3 Using the Unit as a Player in an Ediling Sy

### Adjusting an Edit Timing

Using this unit as a player with the RM-450/450CE

- 1 Set the SYNCHRO selector to ON.
- 2 Set the number 3 of the SYSTEM PRESET right switch to OFF (it is set to OFF at factory):

Setting this to OFF adjusts the synchronization of the recorder.

3 Execute the LEARN function.

Using this unit as a player 1 with the PVE-500

When using this unit as the player 2, the menu item is indicated in ().

- 1 Set Sync Edit of SEtUP-10 to OFF in the SETUP menu.
- 2 Set PI dELAY (P2 dELAY) of SEtUP-13 (SEtUP-14) to LEArn in the
- 3 Set rEC Sync of SEtUP-15 to On in the SETUP menu.
- 4 Set P1 Sync (P2 Sync) of SEtUP-16 (SEtUP-17) to OFF in the SETUP
- 5 Execute the LEARN function.

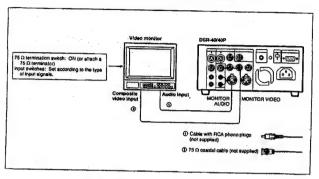
Using this unit as a player 1 with the FXE-120/120P

- When using this unit as the player 2, the menu item is indicated in ( ). When using the FXE-100/100P that has been upgraded with the FXE-KFT1, the menu item is indicated in [ ].
- 1 Display the item 104 [301] SYNC GRADE in the SETUP menu, and set PLAYER1 (PLAYER2) to PREROLL & PLAY.
- 2 Display the item 301 (302) [401 as player 1, 402 as player 2] DEVICE TYPE PLAYER1 (DEVICE TYPE PLAYER2) in the SETUP menu, and set the VCR device constants.
- 3 Execute the LEARN function.

If the edit timing is out of adjustment, follow "Adjusting the IN point" on the next page.

Connection of a video monitor

Set up the following connections to enable monitoring of video and audio signals on a video monitor. In addition to video signals, you can have time data, the DSR-40/40P's operation mode, alarm messages, and other information displayed as text on the monitor screen.



Note

When you want to monitor the edited tape, use the monitor output connector on a recording VCR.

ster 3 Using the Unit as a Player in an Editing System 39<sup>08</sup>

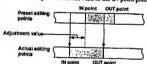
Adjusting the IN point
If the actual edited point does not accurately coincide with the preset
editing point, perform the fine adjustment of the edit timing using the
SETUP menu of the editing control unit. This improves the editing

- Display the item 301 (302) [401 as player 1, 402 as player 2] DEVICE TYPE PLAYER! (DEVICE TYPE PLAYER2) in the SETUP menu, and set it from DISABLE to ENABLE.
- 2 Repeat editing several times and check the shift of the editing point; that is, count the number of frames to be adjusted.

The editing result may differ between DISABLE and ENABLE settings of SETUP menu item 301 (302) [401 as player 1, 402 as player 2]. Be sure to check the editing result after changing the sett to ENABLE.

3 Set the SETUP menu item 301 (302) [401 as player 1, 402 as player 2] from BYTE 01 to BYTE 10, and calculate the adjustment value.

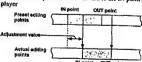
How to calculate the artinos If the actual IN point shifts forward to the IN point preset on the player



08 (default setting) + number of frames obtained in step 2 Example: To adjust 5 frames 08 + 05 = 0D

nt value is calculated in hexadecimal,

If the actual IN point shifts backward to the IN point preset on the



08 (default setting) – number of frames obtained in step 2 Example: To adjust 5 frames 08-05=03

(Continued)

40<sup>de</sup> Chapter 3 Using the Unit as a Player in an Editing System

1-9

4 Perform a trial editing and confirm the adjustment result.

Repeat steps 3 and 4 until best possible result is obtained

### Using this unit as a recorder with FXE-120/120P

- When using this unit as a recorder, also see chapter 4 "Using the Unit as a Recorder in an Editing System."
   When using FXE-100/100P that has been upgraded with FXE-KIT1, the
- menu item is indicated in [ ].
- 1 Display the item 102 [112] REMOTE INTERFACE in the SETUP menu, and set RECORDER to OTHERS.
- 2 Display the Item 104 [301] SYNC GRADE in the SETUP menu, and set RECORDER to PREROLL & PLAY.
- 3 Display the item 303 [403] DEVICE TYPE RECORDER in the SETUP menu, and set the VCR device constants.
- 4 Execute the LEARN function.

If the edit timing is out of adjustment, follow "Adjusting the 1N point" below.

Adjusting the IN point
If the actual edited point does not accurately coincide with the preset
editing point, perform the fine adjustment of the edit timing using the
SETUP menu of the editing control unit. This improves the editing

- 1 Display the item 303 [403] DEVICE TYPE RECORDER in the SETUP menu, and set it from DISABLE to ENABLE.
- 2 Repeat editing several times and check the shift of the editing point; that is, count the number of frames to be adjusted.

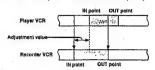
### Note

The editing result may differ between DISABLE and ENABLE settings of SETUP meau item 303 (403). Be sure to check the editing result after changing the setting to ENABLE.

3 Set the SETUP menu item 303 [403] from BYTE 01 to BYTE 10, and

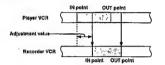
How to calculate the adjustment value

If the actual IN point shifts forward to the IN point preset on the player



08 (default setting) – number of frames obtained in step 2 Example: To adjust 5 frames 08 – 05 – 03

If the actual IN point shifts backward to the IN point preset on the



08 (default setting) + number of frames obtained in step 2 Example: To adjust 5 frames 08 + 05 = 0DAdjustment value is calculated in hexadecimal,

4 Perform a trial editing and confirm the adjustment result.

Repeat steps 3 and 4 until best possible result is obtained.

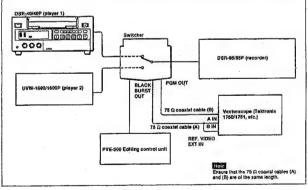
### Using this unit as a player with the BVE-600

- 1 Set the sync grade (menu 2) to mode number 4, PREROLL & PLAY in auxiliary mode.
- 2 Set the VCR device constants in the setting mode.

Adjusting the Sync and Subcarrier Phases

42<sup>GB</sup> Chapter 3 Using the Unit as a Player in an Editing System

When using two or more players, as in an A/B roll editing system, phase synchronization of the signals (i.e. system sync) is necessary and for composite signals only, the subcarrier phase must also be in sync. If not, picture instabilities or color break-up may occur at edit points. After configuring the editing system, use a vectorscope to adjust the sync and subcarrier phase of the recorder and players. Subcarrier phase adjustment is necessary when using composite signals or Y/C signals.



Note

The sync and subcarrier phase of the output signal from the DFS-500 Switcher are automatically adjusted.

Performing a phase adjustment operation

1 Press the SCH button on the vectorscope.

The vectorscope switches to "SCH" mode.

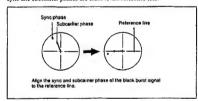
2 Press the B channel button on the vectorscope.

This displays the black burst signal from the switcher.

3 Press the EXT button on the vectorscope.

This switches the vectorscope to external synchronization mode

4 Adjust the phase synchronization control on the vectorscope so that the sync and subcarrier phases are close to the reference line.



- 5 Output the player 1 signal from the switcher, using the PVE-500.
- 6 Press the A channel button on the vectorscope.

This displays the sync phase and subcarrier phase (composite signals only) of the signal from player 1.

7 On player I, adjust the SYNC control, using the H PHASE COARSE menu for rough adjustment and the H PHASE FINE menu for fine adjustment, so that the output from player I on channel (A) is in cornect phase alignment with the black burst signal on channel (B) (See page 53).

 $44^{\text{da}}$  Chapter 3 Using the Unit as a Player in an Editing S

8 On player 1, adjust the SC control, using the SC 0/180 menu for rough adjustment and the SC PHASE menu for fine adjustment, so that the output from player 1 on channel (A) is in correct phase alignment with the black burst signal on channel (B) (See page 53).



### Note

ent signals are used, the subcarrier phase indicator does not appe

9 Output the player 2 signal from the switcher, using the PVE-500, and repeat steps 7 and 8 to adjust the sync and subcarrier phase of the output from player 2.

1 Play back the DSR-40/40P, and output the signals from the VIDEO connector of the OUTPUT connector.

2 Adjust R-Y signal gain level at the COMPOSITE R-Y GAIN menu

3 Adjust B-Y signal gain level at the COMPOSITE B-Y GAIN menu (See page 53).

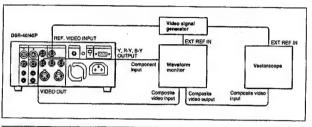
The picture is displayed on the vectorscope.

### **Adjusting Signals**

You can adjust each signal level of the component output signal and the chrominance signal gain level of the composite signal.

Connect the reference video (black burst) signal one-to-one with a device that generates the reference video signal, or make a loop-through connection. If the device has a terminal switch, terminate the connection properly, Both a waveform monitor and a vectorscope are required for adjustments

If you adjust component signal level, be sure to adjust chrominance signals gain level of composite signals.



Adjusting component signal level

- 1 Play back the DSR-40/40P, and output the signals from the Y, R-Y, and B-Y connectors of the OUTPUT connectors.
  - The picture is displayed on the waveform monitor
- 2 Adjust Y signal level at the PB COMPONENT Y LEVEL menu (See
- 3 Adjust R-Y signal level at the PB COMPONENT R-Y LEVEL menu (See page 53).
- 4 Adjust B-Y signal level at the PB COMPONENT B-Y LEVEL menu (See page 53).

 $46^{\text{GB}}$  . Chapter 3. Using the Unit as a Player in an Editing System

Adjusting chrominance signal gain level of the composite signal

(See page 53).

**Adjusting Signals** 

## Using the Unit as a Recorder with FXE-100/100P/120/120P

This unit can be used as a recorder with the FXE-100/100P/120/120P. However, editing accuracy will not correspond with the RS-422A standard in the artists. in the editing system.

For details on usage and connections, refer to the operating manuals supplied with your devices used in a system.

### Notes .

- When using this unit as a recorder:

  -You cannot execute video/audio insert editing.

  -You cannot execute video/audio insert editing.

  -When you use the unit as a recorder with the FXE-120/120P, only assemble editing is available.

  -Adjust the edit timing (See page 40).

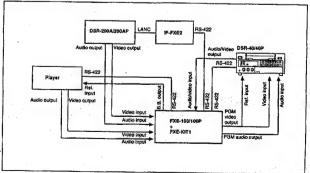
  -Set RECORDER MODE to FXE RECORDER.

  -When you use the unit as a recorder with the FXE-100/100P, the FXE-KIT1 is required for upgrading the FXE-100/100P.

  -Editing accuracy is not guaranteed. If the duration is very short, the recording may not function properly.

  -Be sure to execute the LEARN function. If you do not use the unit for a long time, you have to execute the function also.
- be sure to execute the ELEARCH function also.
   If you execute REC command via RS-422A, it delays the recording start
- -1 you accuse Ke. Command via Ks.-422A, it delays the recording start time for about five minutes. -5et RECORDER to OTHERS in the SETUP menu item 102 (112: when using the FXE-100100P that has been upgraded with the FXE-KIT1) REMOTE INTERFACE of the FXE-120/120P.

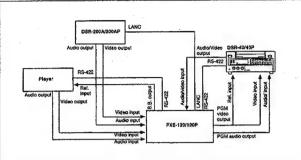
When using this unit as a recorder with the FXE-100/100P (that has been upgraded with the FXE-KIT1)



490 er 4 Using the Unit as a Recorder in an Editing System

ter 3 Using the Unit as a Player in an Ediling System

### When using this unit as a recorder with the FXE-120/120P



### **Changing Menu Settings**

This VCR has various functions available, and you can set and check them on the monitor screen. Before operation, set the clock by setting the CLOCK SET menu.

You can change the menu settings on the SET UP MENU screen.

If necessary, change the settings manually.

### Changing the SET UP MENU Settings

Follow the instructions below to change the settings.

1 Press MENU.

The SET UP MENU appears on the monitor screen.



 $2~{\rm Press}~\$/\$$  to select the option you want to change, and press SET.

Each menu option appears on the monitor screen (see the table below).

 $\boldsymbol{3}$  Press  $\boldsymbol{0}/\boldsymbol{0}$  to change the setting, and press SET.

The menu disappears from the monitor screen. To cancel the menu settings, press MENU again.

### Menu Contents

Initial settings are indicated in bold letters.

Menu options	Set this option to	Description of settings
LOCAL ENABLE	ALL DISABLE	<ul> <li>When the REMOTE/LOCAL awitch is set to REMOTE, all of the tape transport control buttons (front panel/remote control unit) are</li> </ul>
	STOP & EJECT	disabled.  When the REMOTE/LOCAL switch is set to REMOTE, only the STOR
	EJECT	and EJECT buttons (front panel/remote control unit) are enabled.  When the REMOTE/LOCAL switch is set to REMOTE, only the EJECT button (front panel) is enabled.
RS-422 CUE-UP MODE	WITH VIDEO	While searching with equipment connected to the REMOTE connector, the searching picture is displayed.
	WITHOUT VIDEO	<ul> <li>Does not display the searching picture. (The searching speed will be laster than when set to WITH VIDEO.)</li> </ul>

 $50^{\text{de}}$  Chapter 4 Using the Unit as a Recorder in an Editing System

Chapter 5 Menu Sellings 51 09

### Menu Organization

Menu options	Set this option to	Description of settings
AUTO OFF	OFF	To turn off the VCR automatically if there is no operation and the lape stops for an hour (Auto Off),     To deactivate Auto Off.
AUTO REWIND	ON	To rewind the tape to its beginning automatically if the tape reaches to an end (Auto Rewind).
	OFF	To deactivate Atto Rewind.
INDEX WRITE	AUTO OFF	To record index signals when recording begins.     Not to record index signals.
CASSETTE MEMORY SEARCH	AUTO	<ul> <li>To search recordings with the cassette memory. If the tape does not have a cassette memory, the VCR will search recordings using index signals recorded on the tape itself.</li> <li>To search recordings using the index signals recorded on the tape.</li> </ul>
CASSETTE MEMORY ERASE	ALL DATA INDEX DATA DATE DATA PHOTO DATA	-To erase all the data in the cassette memory. When using the cassette whose memory can store over 16 kblts of data, you can only 17 details indicad tall in the cassette memory. 17 details indicad data in the cassette memory. 17 details indicad data in the cassette memory.
РНОТО РВ	FIELD	To prevent the picture from blurring when playing a lape recorded in photo mode.     To see a clear picture when playing a still picture.      ISIGE  When selecting FRAME, a picture recorded in photo mode may be blurred.
DV EE OUT	ON OFF	To output the selected line input signals from the DV jack.     To output only playback video and audio signals from the DV jack.
DISPLAY POSITION	CENTER LOWER RIGHT OFF	<ul> <li>To display the tape counter in the center of the monitor acreen.</li> <li>To display the tape counter in the lower right of the monitor screen.</li> <li>Not to display the tape counter.</li> </ul>
CAUTION DISPLAY	ON OFF	To display alarm messages on the monitor screen,     Not to display alarm messages.
BEEP	ON OFF	To output a beep sound when an illogical operation is made.     To deactivate the beep.
TIME CODE (DSR-40 only)	NDF DF	To set the time code to the same one as already recorded on the tape.  To set the time code to Non Drop Frame.  To set the time code to Drop Frame.  To set the time code to Drop Frame.  If you use AUTO and start econding at the beginning of the tape, the time code is set to Non Drop Frame.
PREROLL TIME SELECT	3SEC 5SEC 7SEC 10SEC	The preroil time can be set between 3 and 10 seconds by four steps. When an editing controller such as the PVE-500 has been connected, this setting is disabled and the editing controller's setting is in effect. The preroil time setting is also performed on the editing controller.
AFTER CUE-UP	STOP	After a cue-up, the unit informs the editing unit that it is in stop mode. (The unit is actually in still mode.)     After a cue-up, the unit turns to still mode.
PB STILL DELAY	OFRAME - 10FRAME	Playback still delay can be set between 0 and 9 frames by 11 steps. You can set the delay which the unit turns to playback mode from still mode.
RECORDER MODE	NORMAL PLAYER	To use the unit as a normal player.     To use the unit as a recorder with the FXE-120/120P in a system.
STILL TIMER	8SEC - 4MIN	You can set the time which releases still or pause mode to protect the tape. Select time from 6 settings ranging from 8 seconds to 4 minutes.

Menu options	Set this option to	Description of settings
NEXT MODE FROM STILL	STEP FWD	To advance the tape one frame after elapsing the set time of STILL TIMER during still mode.
	STB OFF	To turn the unit to standby-off mode from still mode after elapsing the set time of STILL TIMER.
H PHASE COARSE®	_	For rough adjustment of sync phase.
H PHASE FINE®	_	For line adjustment of sync phase. *
SC 0/180"	ODEG - 180DEG	For rough adjustment of subcerrier phase. *
SC PHASE®	- '	For fine adjustment of subcarrier phase.
PB COMPONENT Y LEVEL*	-	Adjusts Y signal level of the component signal in the playback mode.
PB COMPONENT B-Y LEVEL®	_	Adjusts B-Y signal level of the component signal in the playback mode.
PB COMPONENT R-Y LEVEL"	_	Adjusts R-Y signal level of the component signal in the playback mode.
COMPOSITE B-Y GAIN*	_	Adjusts B-Y signal gain level of the composite signal in the playback mode.
COMPOSITE R-Y GAIN*	_	Adjusts R-Y signal gain level of the composite signal in the playback mode.
AUDIO MIX BALANCE	_	If you set the AUDIO MONTOR selector to MIX, you can select the precise balance between channels 1/2 and channels 3/4 by five steps.
AUDIO MODE	Fs48k	<ul> <li>To set the audio mode to 2-channel mode (16bit mode). This mode uses the whole audio erea to record one stereo track. You can get higher sound quality.</li> </ul>
	Fs32k	<ul> <li>To set the audio mode to 4-channel mode (12bit mode). This mode separates the audio area into 2 parts. You can record two kinds of audio, stereo 1 and stereo 2. When recording on this VCR, audio signats are recorded only in channels 1/2.</li> </ul>
JOG WITH SOUND	ON	- To listen to the sound when playing a tape at various speeds.
	OFF	<ul> <li>To lurn oil the sound when playing a lape at various speeds.</li> </ul>
HOURS METER		The digital hours meter keeps cumulative counts of the head down rotation time and the number of unthreading operations. These counts can be displayed on the monitor screen and are unresettable.
	DRUM ROTATION THREADING	<ul> <li>The cumulative total hours of drum rotation with tape threaded is displayed in 10-hour increments.</li> <li>The cumulative number of tape unthreading operation is displayed in 10-operation increments.</li> </ul>
CLOCK SET	-	Set the clock on this VCR so that the recording time can be written into the index signal.  Using \$\phi/\psi\$ and SET bullons, set the date and time.

a) The ● mark appears on the monitor screen when the value is set to "0." b) Adjust the value with the Ŷ/\$ buttons.

53<sup>cs</sup>

### Recommended settings in the SET UP menu

Depending on the position of the REMOTE/LOCAL switch, set the menu options as follows:

Manu options	Default	REMOTE	LOCAL
LOCAL ENABLE	ALL DISABLE	Default	Default
RS-422 CUE-UP MODE	WITH VIDEO	Default	Delsuit
AUTO OFF	OFF	OFF	QN
AUTO REWIND	ON .	OFF	ON
INDEX WRITE	AUTO	Delautt	Delault
CASSETTE MEMORY SEARCH	AUTO	Delsuit	Default
CASSETTE MEMORY ERASE	ALL DATA	Default	Delault
РНОТО РВ	FIELD	Default	Default
DV EE OUT	OFF	Default	Delaut
DISPLAY POSITION	LOWER RIGHT	Delault	Default
CAUTION DISPLAY	ON	Default	Default
BEEP	QN	Default	Defaul
TIME CODE (Only for DSR-40)	AUTO	Delauk	Default
PREROLL TIME SELECT	7 SEC	Detault	Detaut
AFTER CUE-UP	STOP	Depending on editing unit	Default
PB STILL DELAY	0 FRAME	Default	Delauit
RECORDER MODE	NORMAL PLAYER	Depending on editing unit	Delault
STILL TIMER	8 SEC	Default	Defaul
NEXT MODE FROM STILL	STS OFF	Default	Default
H PHASE COARSE	-	Depending on adking system	Delaul
H PHASE FINE	-	Depending on aditing system	Default
SC 0/180	0 DEG	Depending on editing system	Default
SC PHASE	_	Depending on editing system	Defaut
PB COMPONENT Y LEVEL	-	Depending on editing system	Default
PB COMPONENT B-Y LEVEL	-	Depending on editing system	Default
PB COMPONENT R-Y LEVEL	-	Depending on editing system	Delaul
COMPOSITE B-Y GAIN	-	Depending on editing system	Defaul
COMPOSITE R-Y GAIN	-	Depending on editing system	Defaul
AUDIO MIX BALANCE	-	Default	Delaul
AUDIO MODE	F948k	Delault	Defaul
JOG WITH SOUND	ON	ON	OFF

- Default: Set the menu option to be suitable for your usage; you can use with the default setting.
   Depending on editing unit: Set the menu option to be suitable for your unit.
   Depending on editing system: Set the menu option to be suitable for your system.

### Alarm Messages

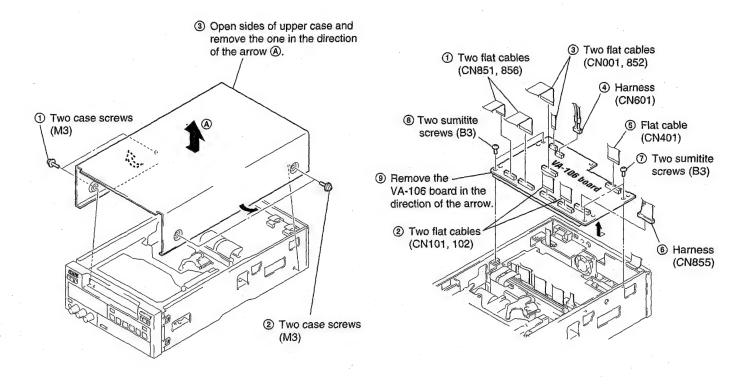
Message	Meaning / Remedy
PLEASE CONFIRM THE SAFETY SWITCH OF THE CASSETTE	Check that the protect tab is slid in so that the red portion visible   Slide back the safety switch (see page 8).
NO CASSETTE MEMORY	You try to erase cassette memory when there is no cassette memory.
VCR IS RECORDING	You press a certain operation button during recording or aditing.
PLEASE INSERT A NEW CASSETTE	Though no cassette is inserted in the cassette compartment, you press PLAY, etc. → Insert a cassette.
THE TAPE IS REWOUND	You press REW at the beginning of the tape.
PLEASE REWIND OR INSERT A NEW CASSETTE	You try to start playback or recording at the tape end.  Rewind the tape or insert a new cassette.
PLEASE SET THE CLOCK	When turning on the powar, the clock has not been set.  → Set the clock in the menu (see page 53).
THIS PROGRAM IS COPYRIGHT PROTECTED	You try to dub the tape on which copyright protect signals are recorded.
CASSETTE MEMORY IS TOO LARGE TO ERASE	You try to erase data on a tape having more than 15 Kbits memory capacity in INDEX DATA, DATE DATA, or PHOTO DATA mode.  — Erase it in ALL DATA mode (see page 52).
WRITING ON CASSETTE MEMORY, PLEASE WAIT	You do certain operation white the VCR is writing on cassette memory.
VCR IS IN DUP MODE	You press a cartain operation button during duplication.

## SECTION 2 DISASSEMBLY

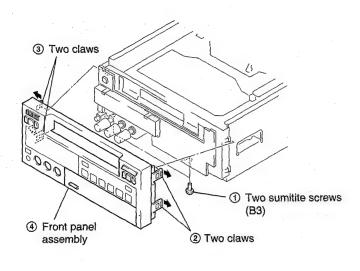
Note: Follow the disassembly procedure in the numerical order given.

### 2-1. REMOVAL OF UPPER CASE

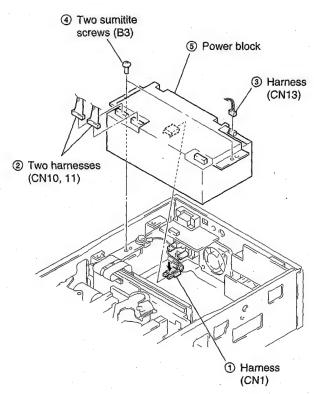
### 2-3. REMOVAL OF VA-106 BOARD



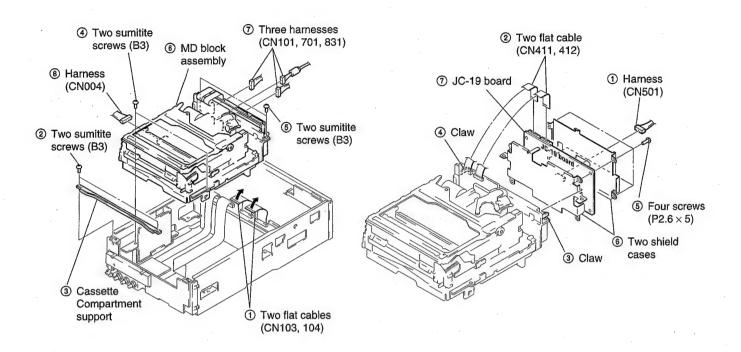
## 2-2. REMOVAL OF FRONT PANEL ASSEMBLY



### 2-4. REMOVAL OF POWER BLOCK

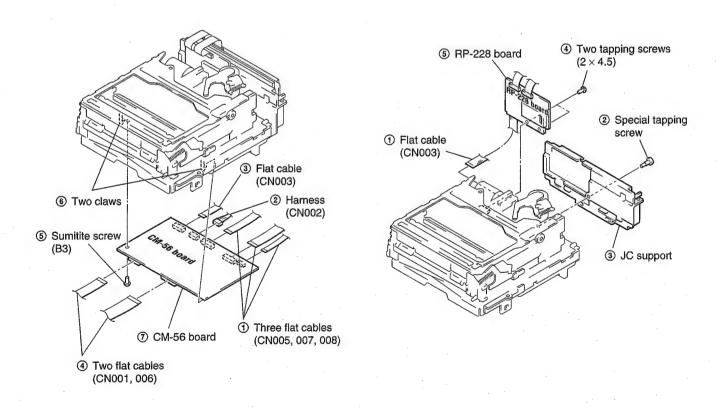


### 2-5. REMOVAL OF MD BLOCK ASSEMBLY 2-7. REMOVAL OF JC-19 BOARD

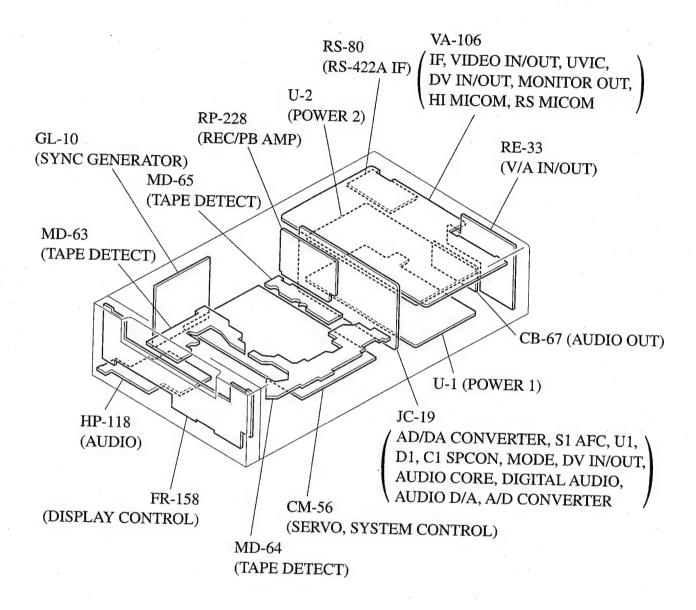


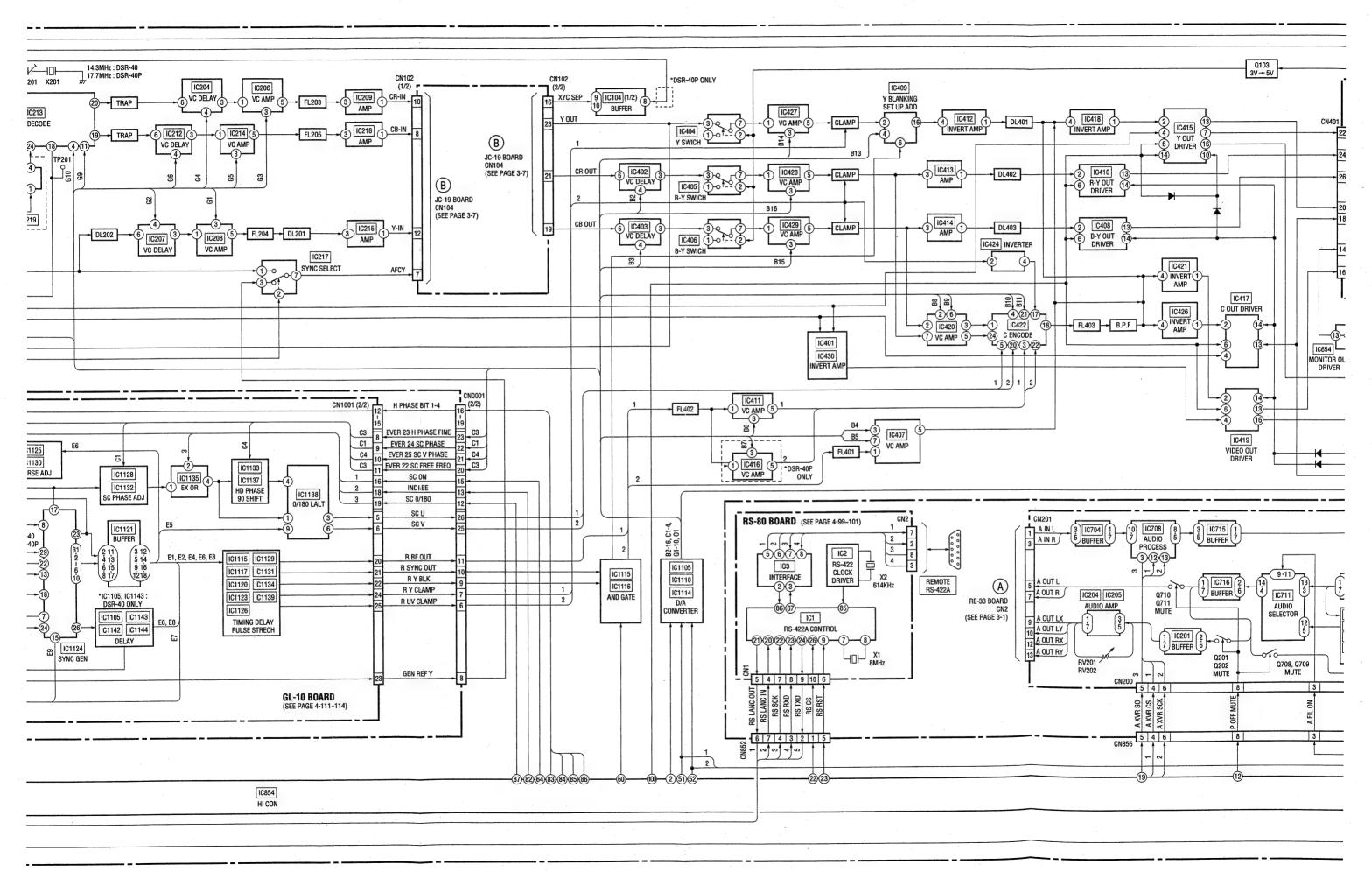
### 2-6. REMOVAL OF CM-56 BOARD

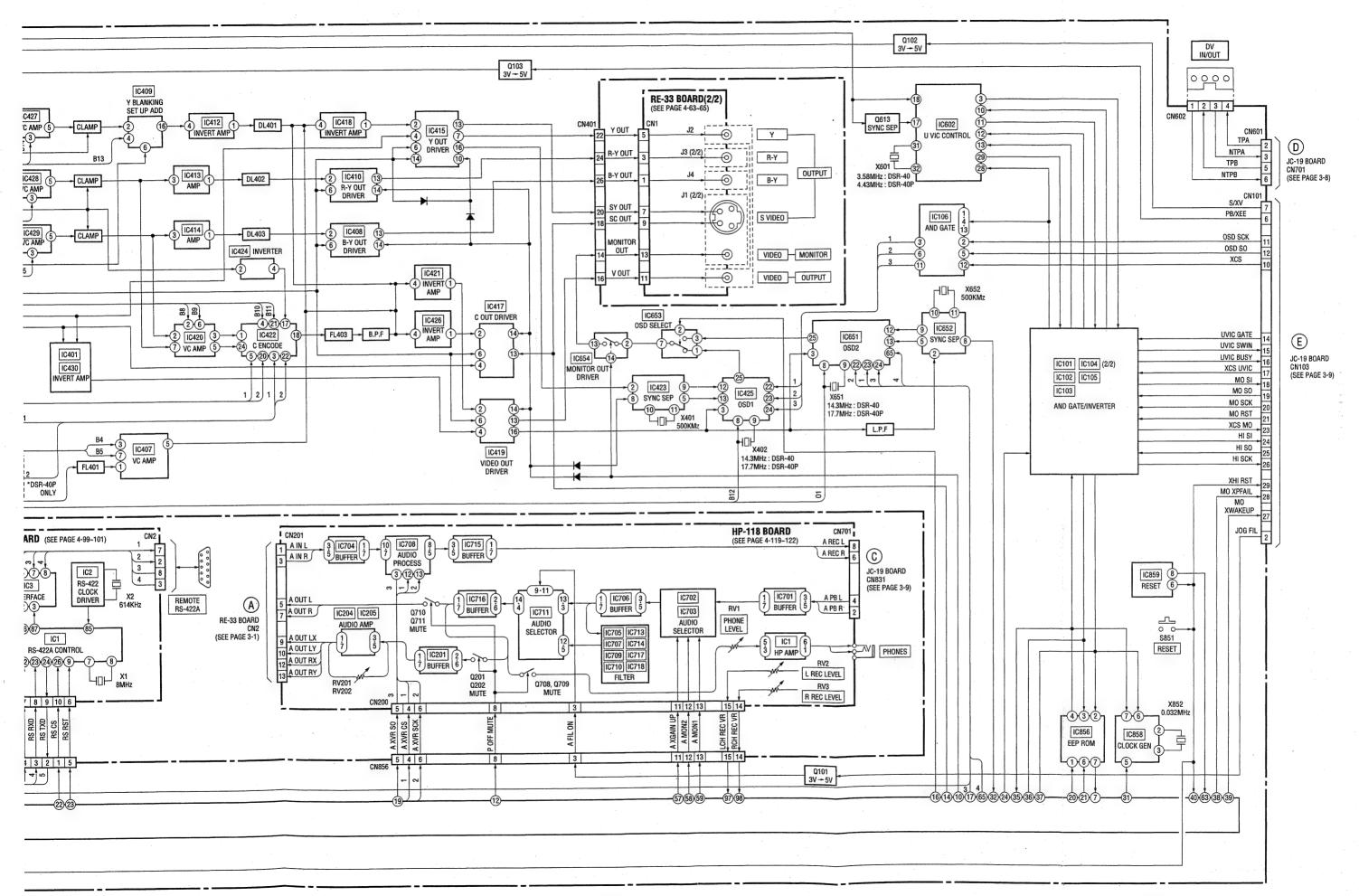
### 2-8. REMOVAL OF RP-228 BOARD



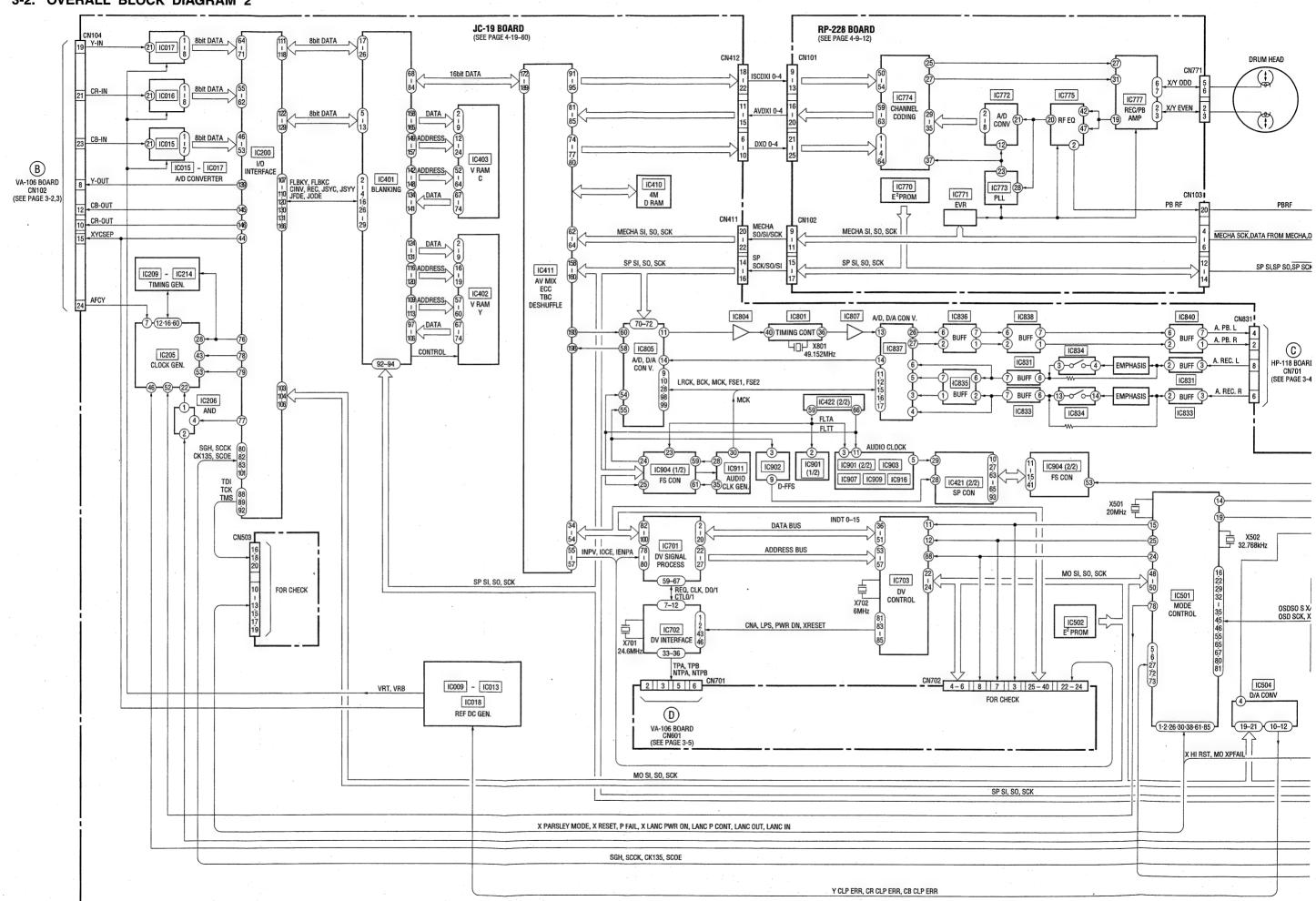
## 2-9. CIRCUIT BOARDS LOCATION

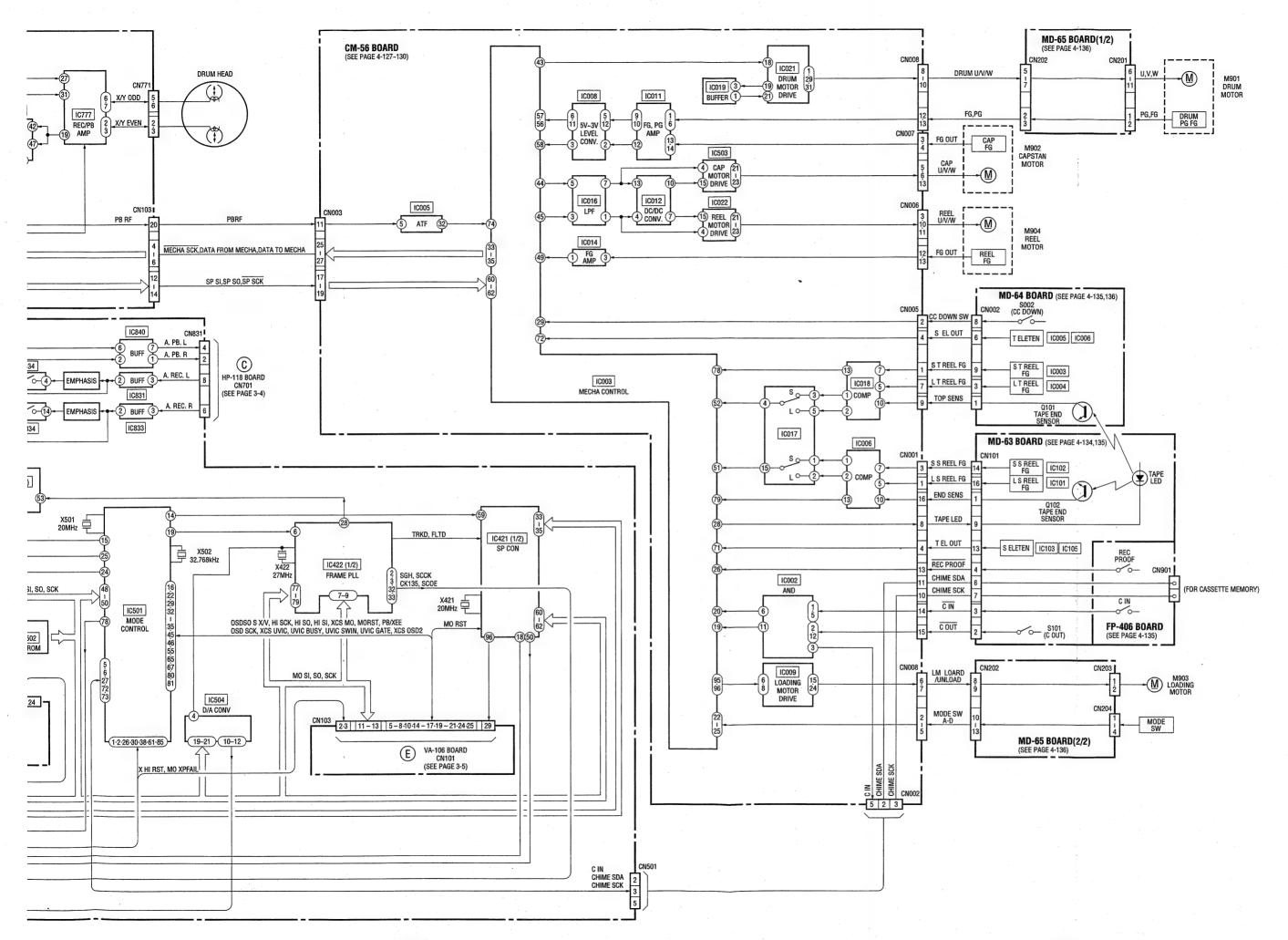




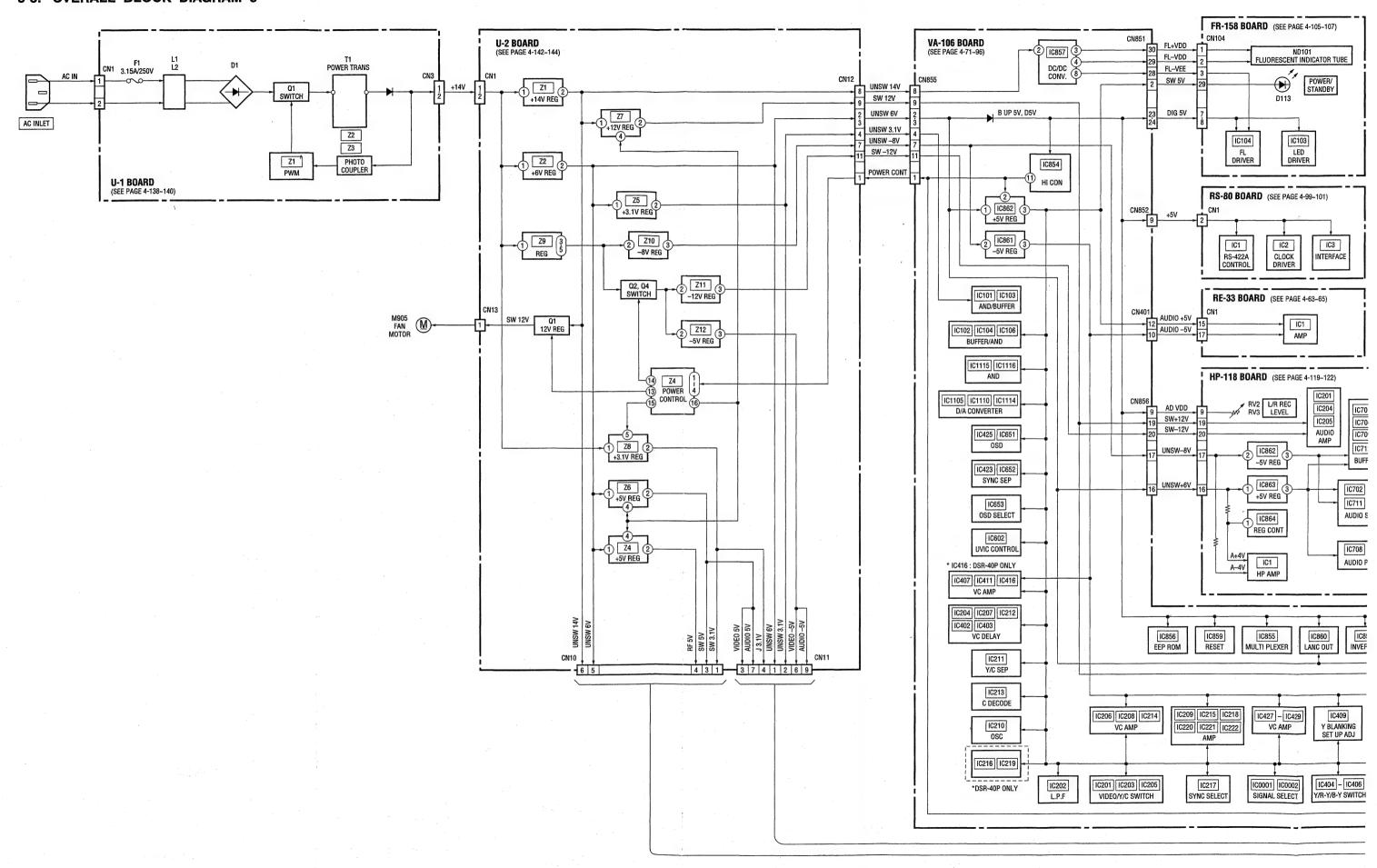


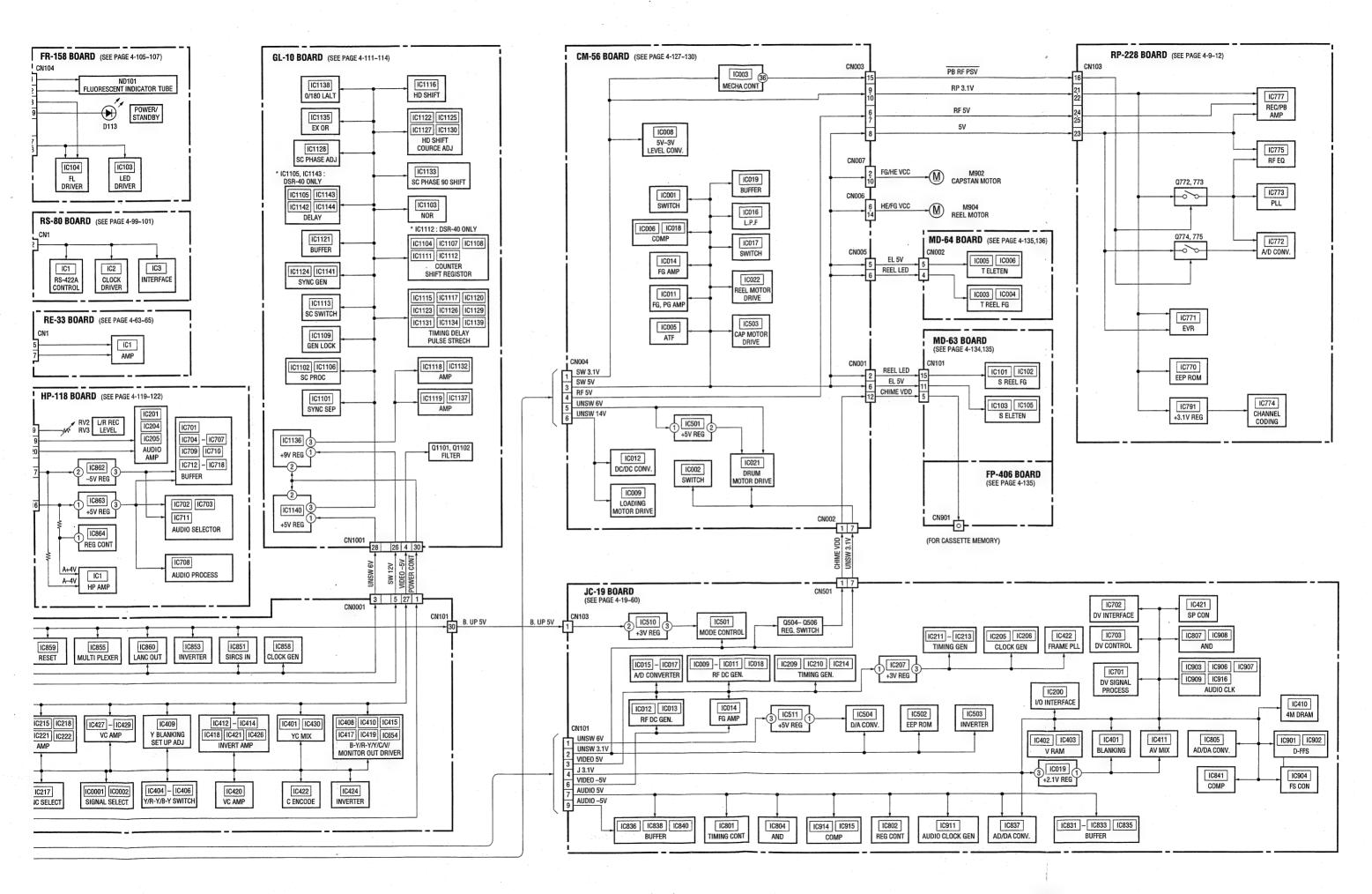
### 3-2. OVERALL BLOCK DIAGRAM 2





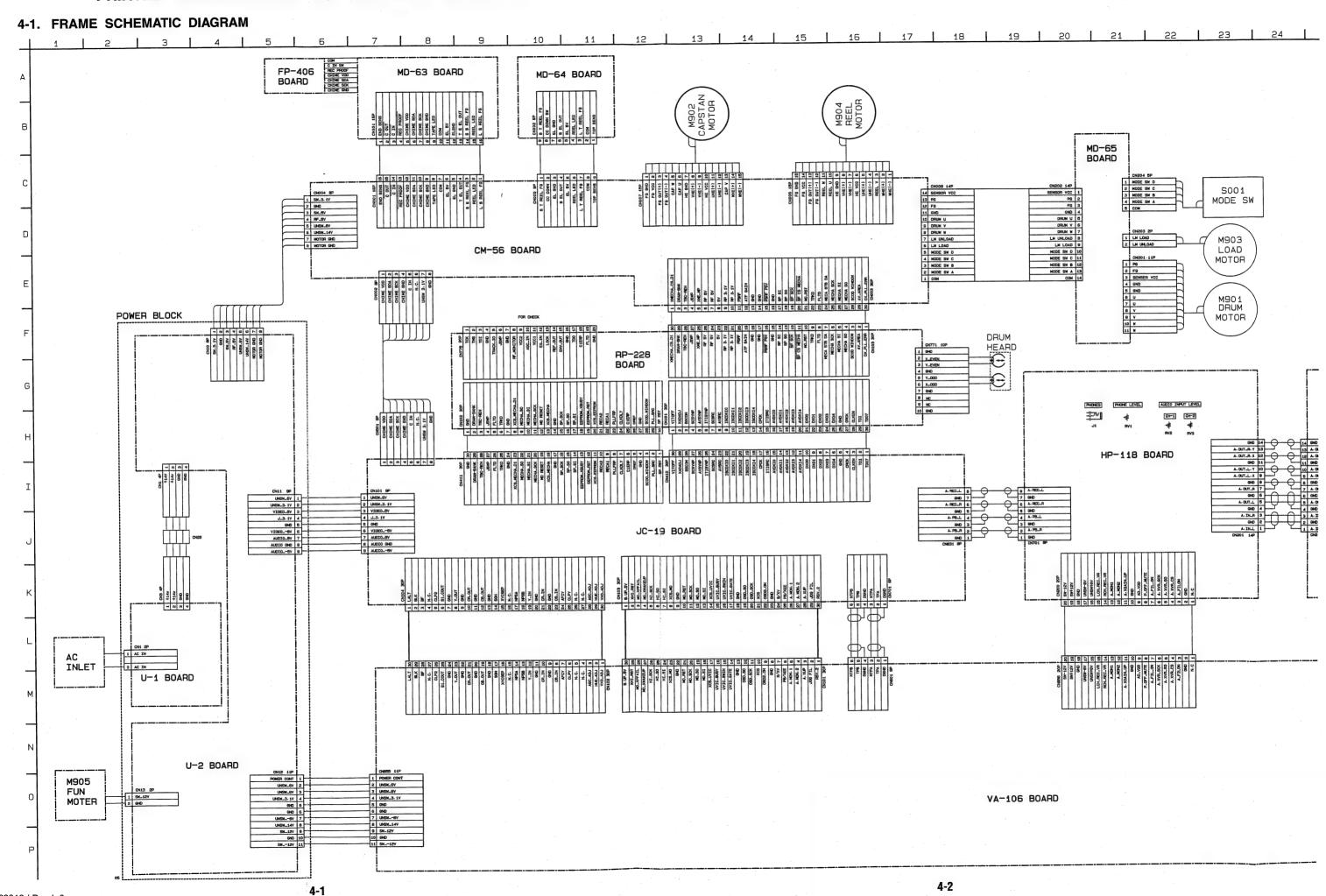
### 3-3. OVERALL BLOCK DIAGRAM 3

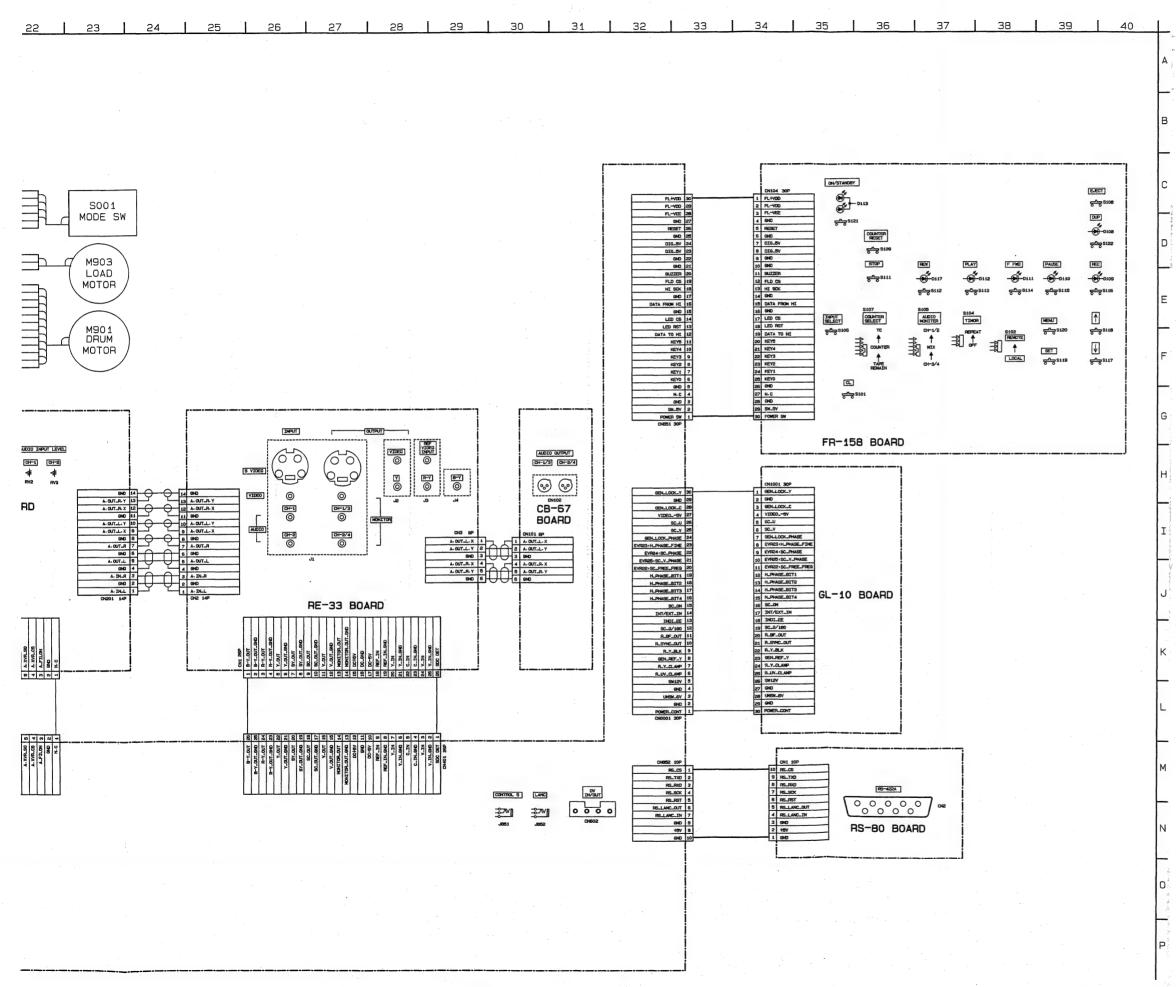




SECTION 4
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

V23312 / Druck 8





### 4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

RP-228 BOARD (SIDE A)

A-1 B-5 C-5

C-1 D-3 B-1 B-3 C-5

C-2 B-3 A-1 A-1 B-2 B-2 A-3 B-3

CN101 CN102 CN771

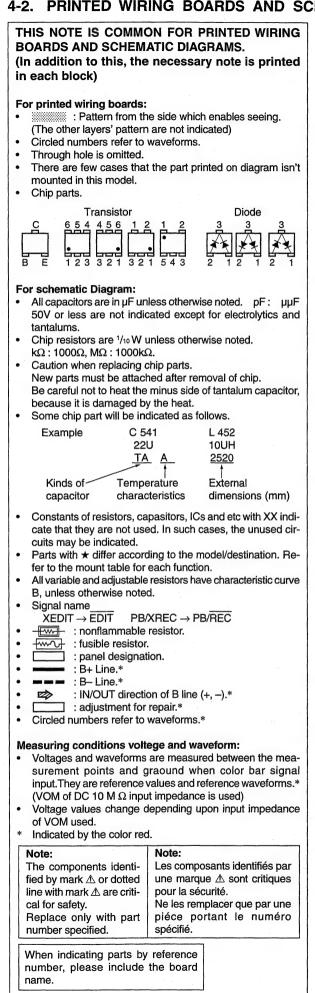
CN775

D772 D774

D775

IC770 IC771 IC772 IC775 IC777

Q105 Q109 Q774 Q775 Q776 Q777 Q779 Q784



RP-228 (REC/PB	AMP)	PRINTED	WIRING	BOARD

- Ref. No.: RP-228 board; 7,000 series -

For Printed Wirin

 RP-228 board is s of layers 2 to 5 ha

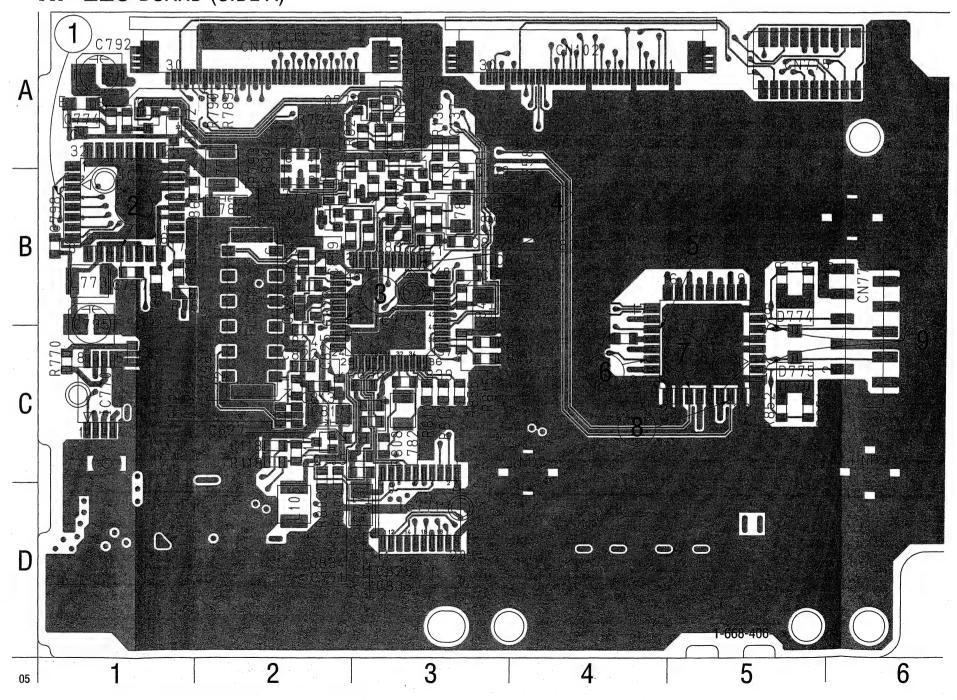
There are few cas

is printed on this c

Chip transistor

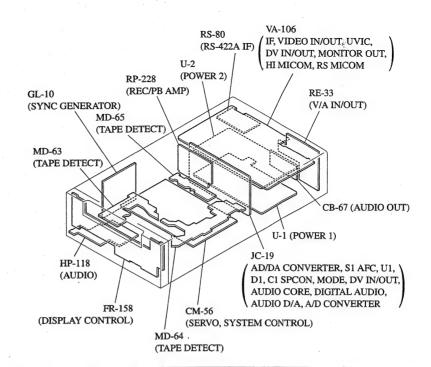


## RP-228 BOARD (SIDE A)



- For Printed Wiring Board.
- RP-228 board is six-layer print board. However, the patterns of layers 2 to 5 have not been included in the diagram.
- There are few cases that the part isn't mounted in this model is printed on this diagram.
- Chip transistor





RP-228 BOARD

CN103 D-5

D-4 C-6

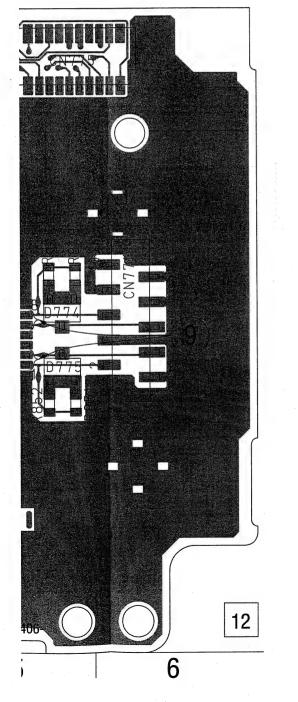
(SIDE B)

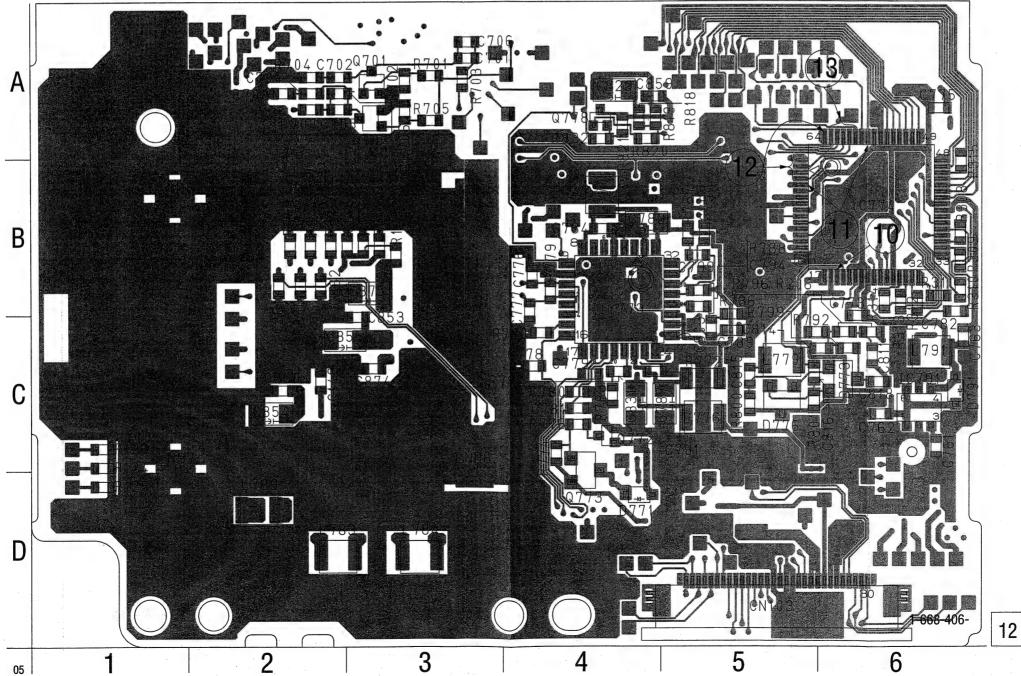
D771 D773

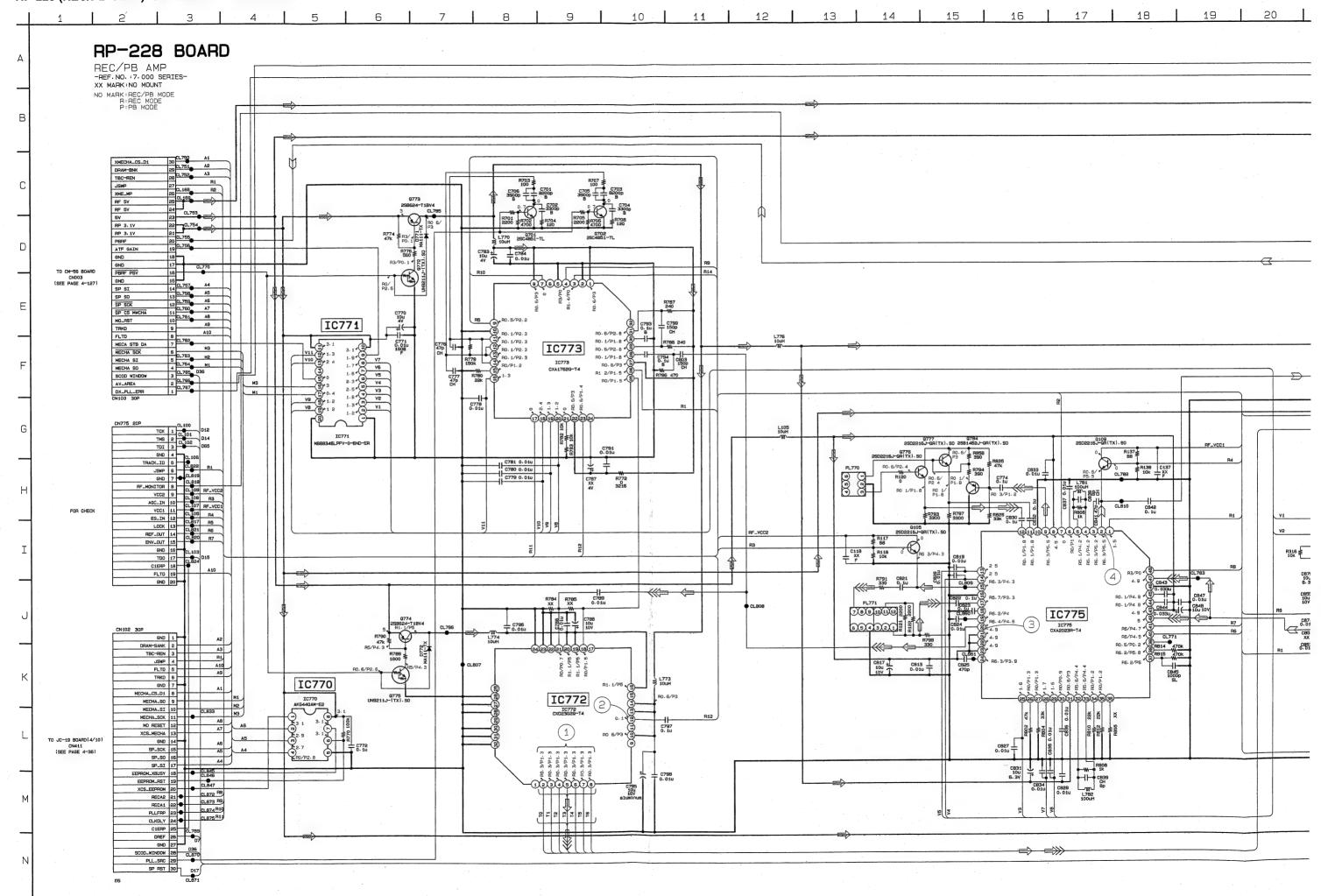
IC773 IC774

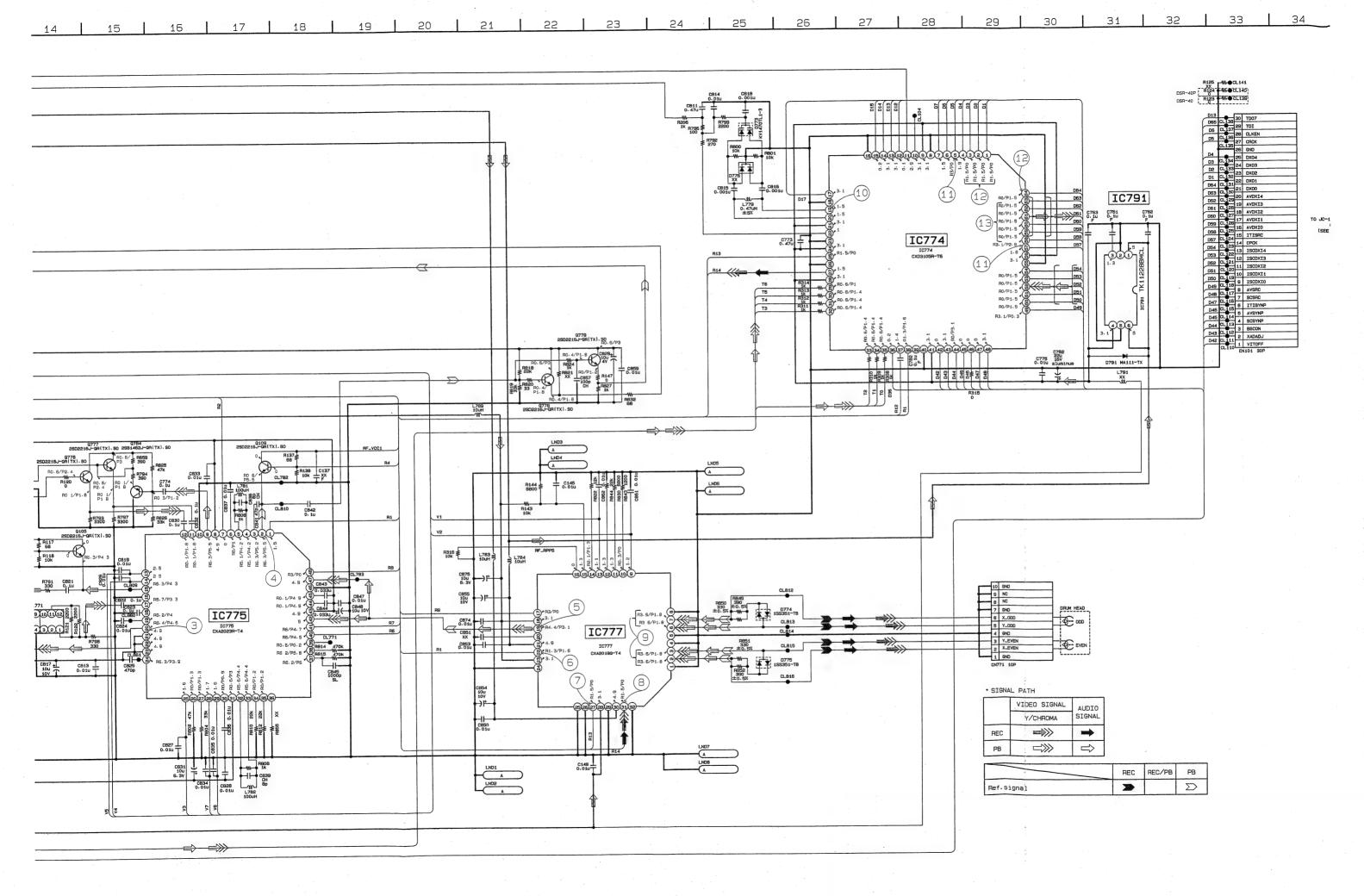
Q701 Q702 Q772 Q773 Q778

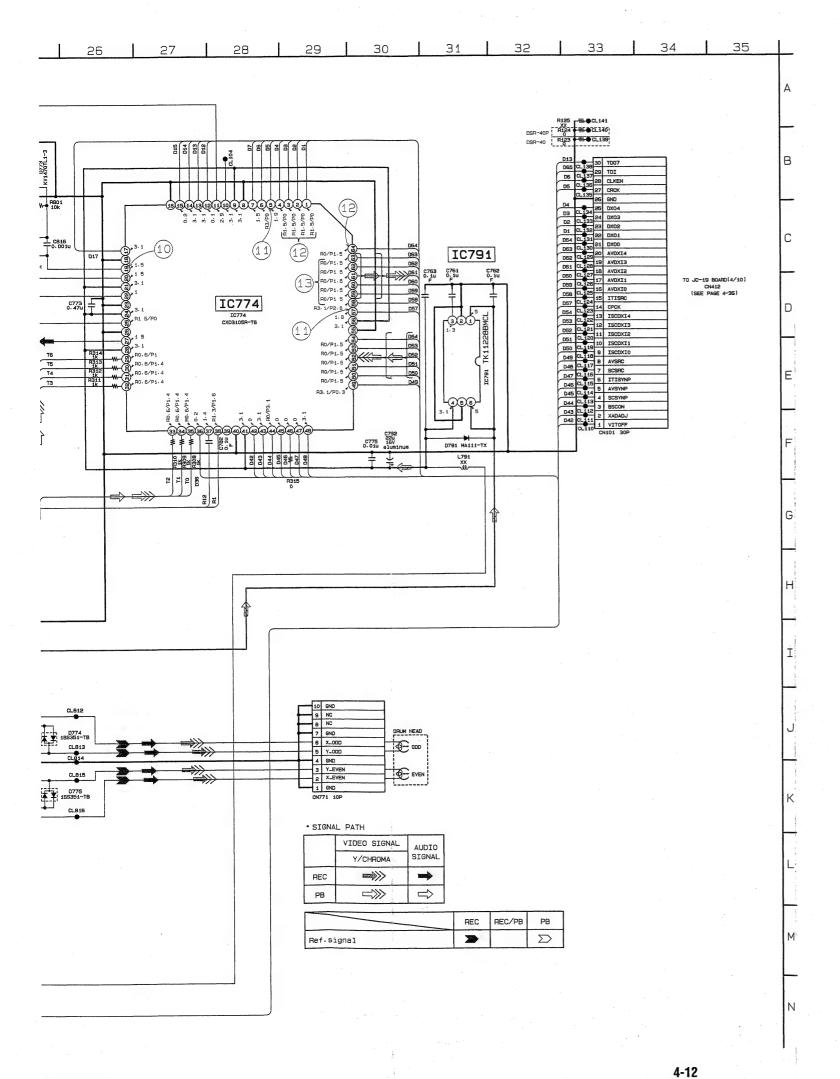
RP-228 BOARD (SIDE B)

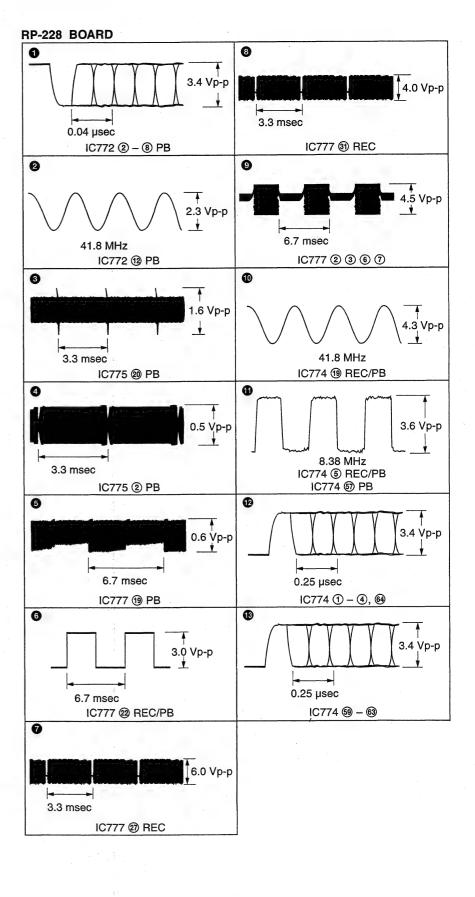












JC-19 (AD/DA CONVERTER, S1 AFC, U1, D1, C1 SPCON, MODE, DV IN/OUT, AUDIO CORE,

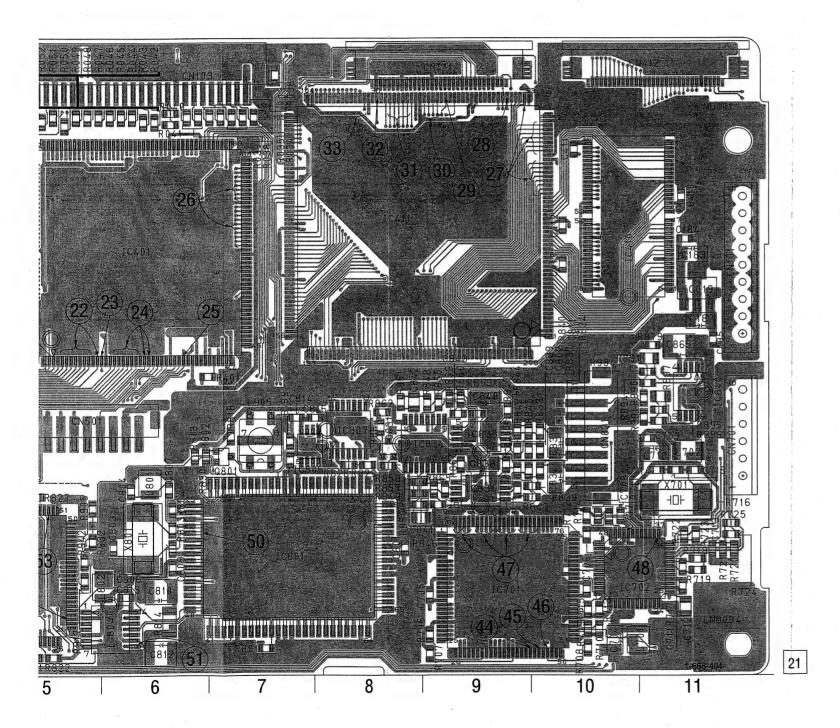
DIGITAL AUDIO, AUDIO D/A, A/D CONVERTER) PRINTED WIRING BOARD JC-19 BOARD (SIDE A) - Ref. No.: JC-19 board; 5,000 series -CN103 CN104 CN411 CN412 CN501 CN831 A-6 A-3 A-9 A-10 D-5 D-10 IC012 IC013 IC014 IC018 IC209 IC209 IC210 IC211 IC212 IC213 IC214 IC401 IC411 IC702 IC801 IC804 IC805 IC807 IC807 IC831 IC831 IC833 IC833 IC834 C-2 C-2 C-1 B-4 C-11 E-2 E-1 D-4 B-4 C-4 B-10 B-8 F-9 E-10 E-7 F-6 E-9 D-9 D-11 JC-19 BOARD (SIDE A) Q039 Q040 Q041 Q042 Q043 Q044 Q045 Q050 Q051 Q052 Q053 Q200 Q201 Q801 B-3 B-3 B-3 B-2 B-2 A-3 B-4 A-2 B-1 C-3 D-2 (IF, VIDEO IN/OUT, UVIC, DV IN/OUT, MONITOR OUT, (RS-422A IF) HI MICOM, RS MICOM (POWER 2) RP-228 (REC/PB AMP) RE-33 GL-10 (V/A IN/OUT) (SYNC GENERATOR) MD-63 (TAPE DETECT CB-67 (AUDIO OUT) U-1 (POWER 1) HP-118 AD/DA CONVERTER, S1 AFC, U1 D1, C1 SPCON, MODE, DV IN/OUT FR-158 (DISPLAY CONTROL) (SERVO, SYSTEM CONTROL

AD/DA CONVERTER, S1 AFC, U1, D1, C1 SPCON, MODE, DV IN/OUT, AUDIO CORE, DIGITAL AUDIO, AUDIO D/A, A/D CONVERTER

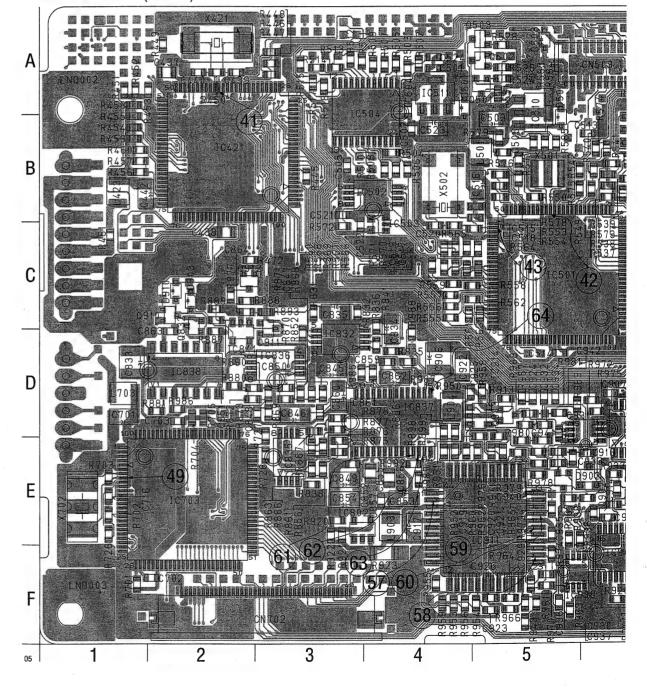
#### • For Printed Wiring Board.

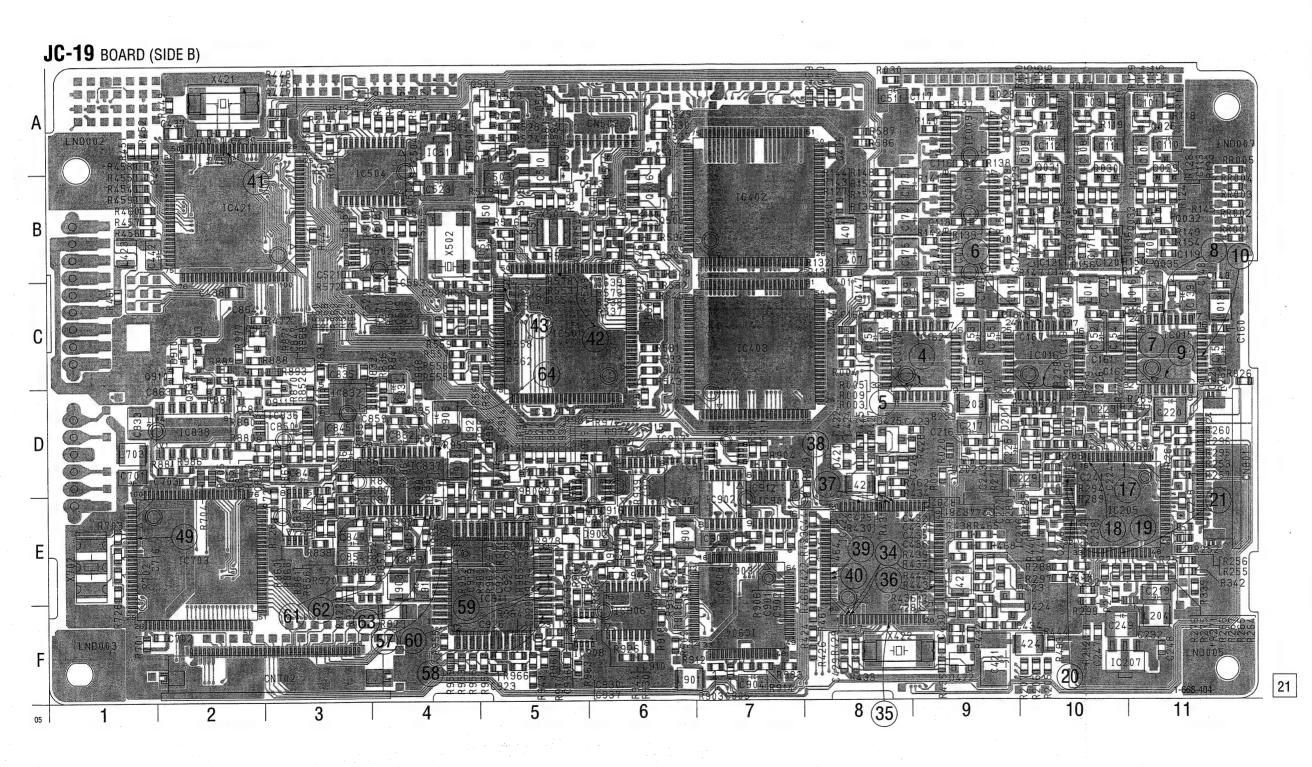
- JC-19 board is six-layer print board. However, the patterns of layers 2 to 5 have not been included in the diagram.
- There are few cases that the part isn't mounted in this model is printed on this diagram.
- Chip transistor





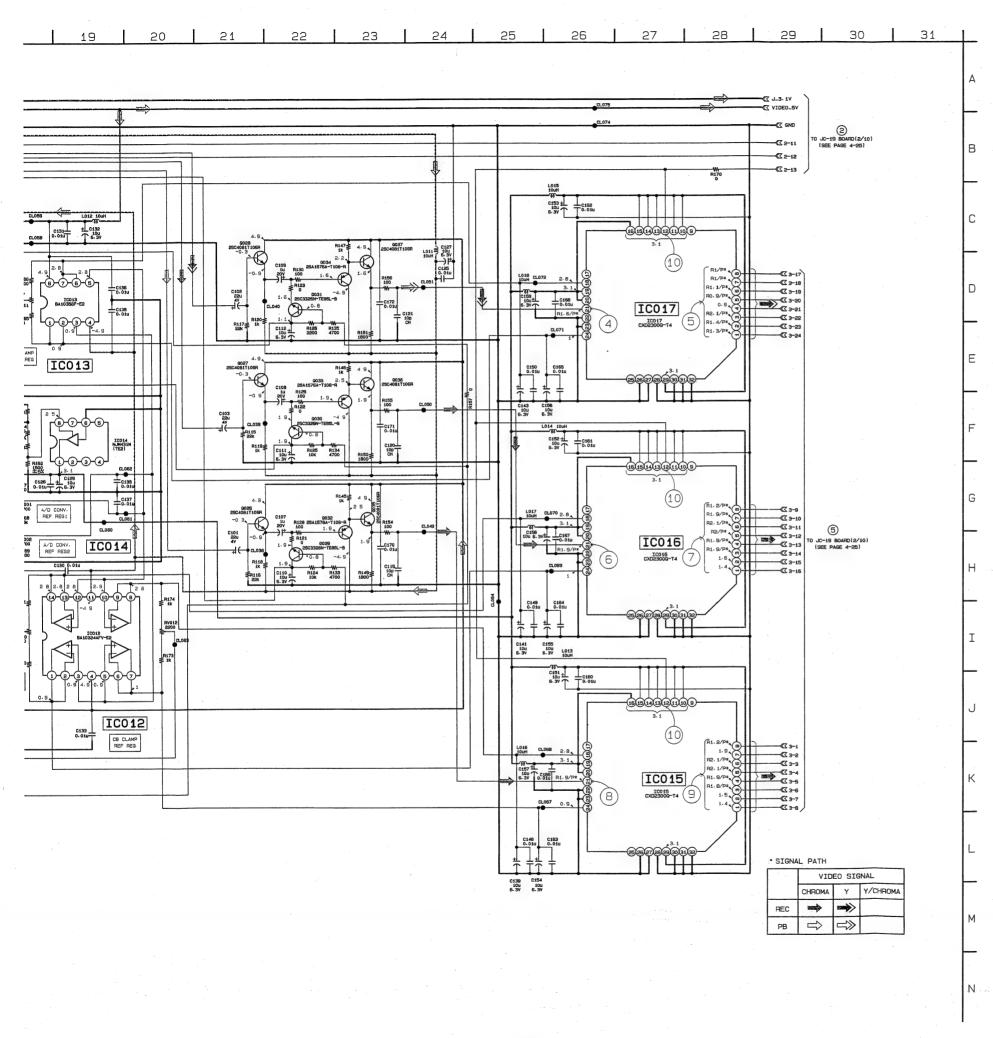


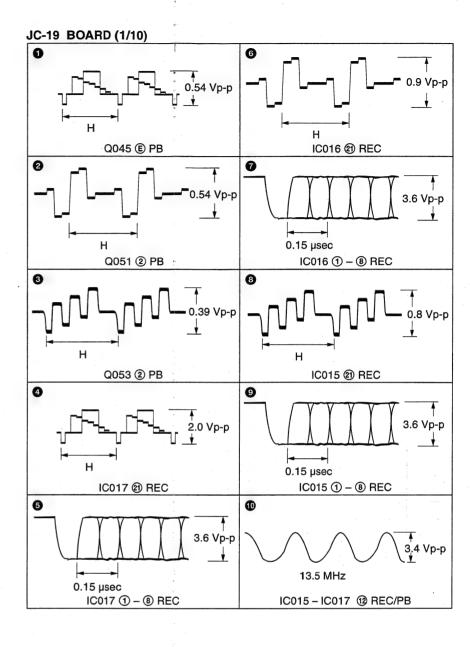


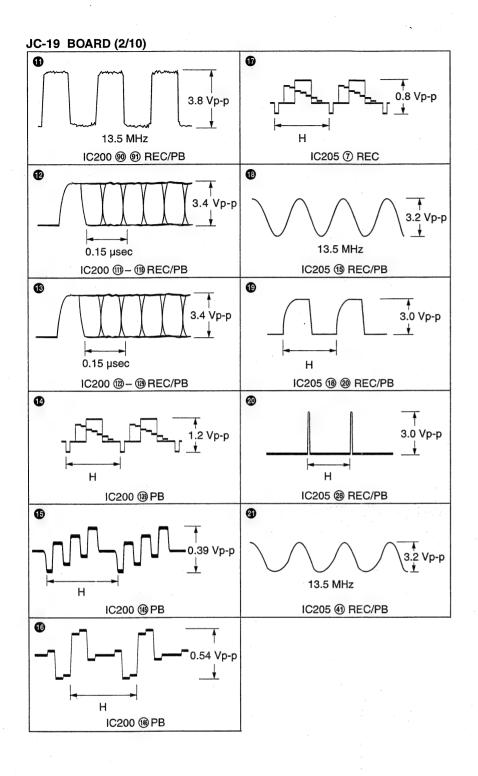


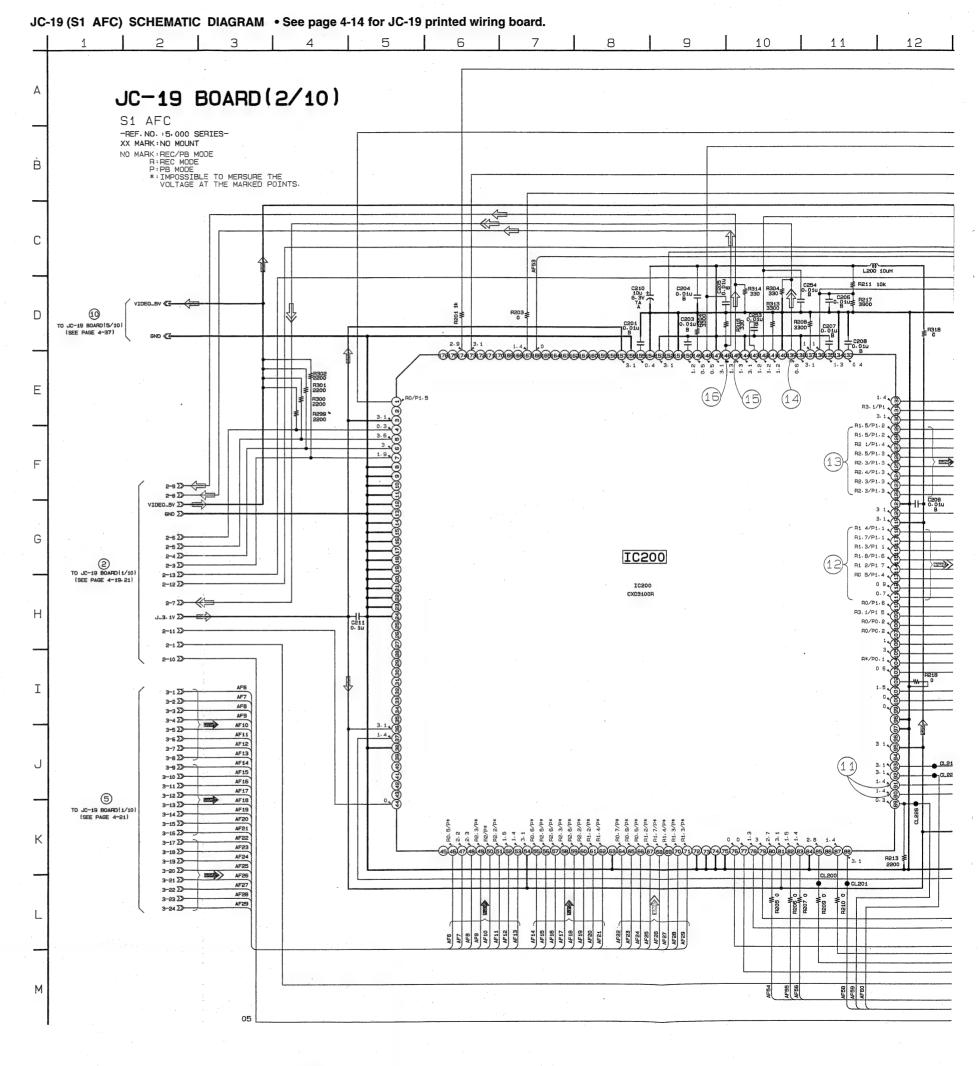
D201 D421 D422 D423 D424 D425 D501 D503 D504 D901 D902 D903 D910 D-9 D-8 F-9 E-9 D-8 A-4 A-5 B-5 E-6 C-2 C-2 IC009 IC010 IC011 IC015 IC016 IC017 IC205 IC206 IC207 IC402 IC403 IC421 IC502 IC501 IC502 IC504 IC510 IC502 IC835 IC836 IC837 IC801 IC901 IC904 IC904 IC906 IC906 IC907 IC908 IC907 IC908 IC907 IC908 IC907 IC911 IC914 IC916 IC916 A-9
B-9
B-9
C-110
C-10
E-10
E-10
E-10
B-7
B-8
C-5
B-4
A-4
A-5
A-2
B-3
D-3
D-2
D-7
D-7
F-6
D-6
E-5
D-6
D-6 Q026 Q027 Q028 Q029 Q030 Q031 Q032 Q033 Q034 Q035 Q036 Q037 Q501 Q502 Q504 Q505 Q506 Q632 Q902 Q903 Q911 A-11 A-10 A-10 A-11 A-10 B-11 B-10 B-11 B-10 B-15 B-6 B-6 B-6 D-5 C-2 C-3

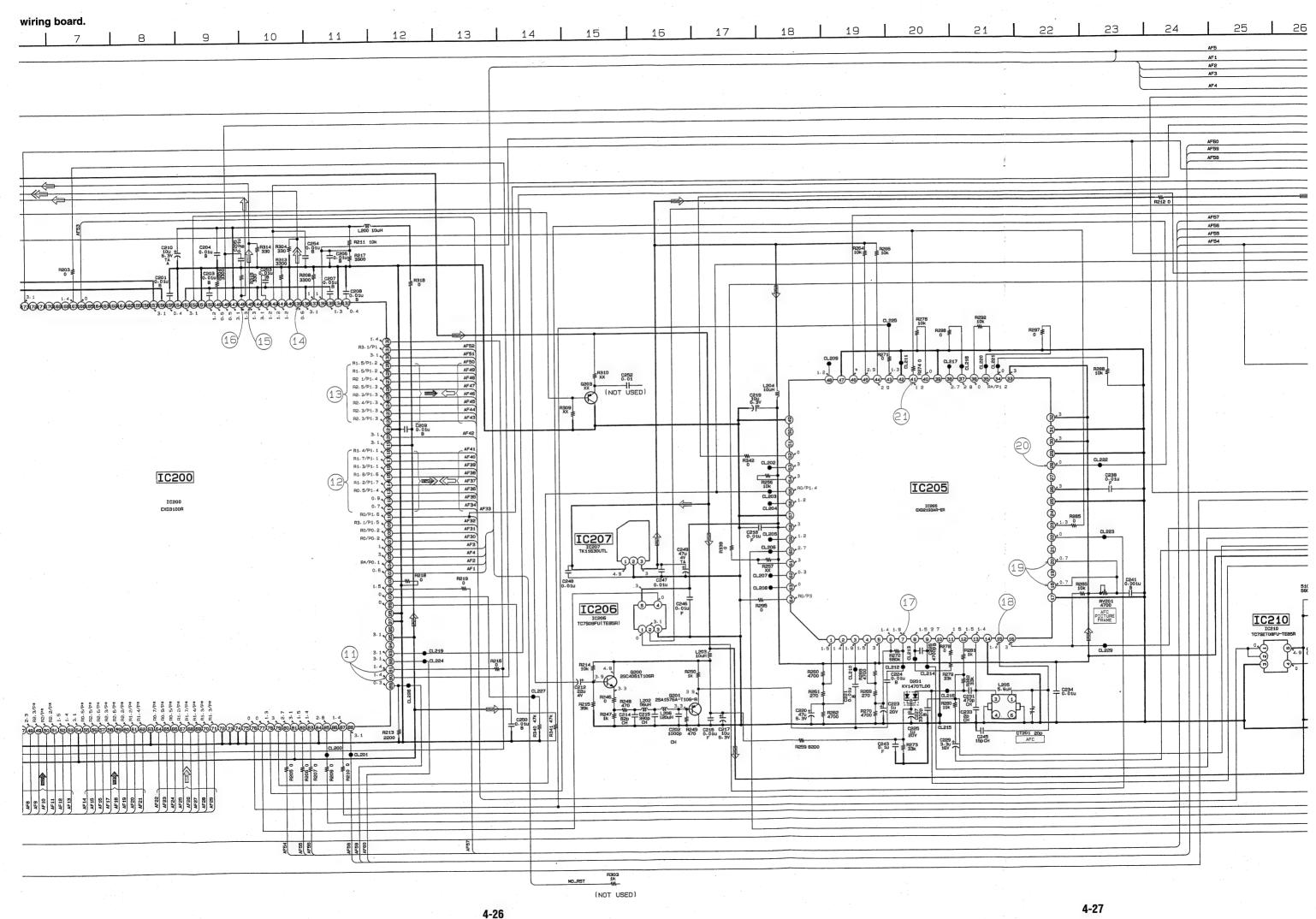
JC-19 BOARD (SIDE B)

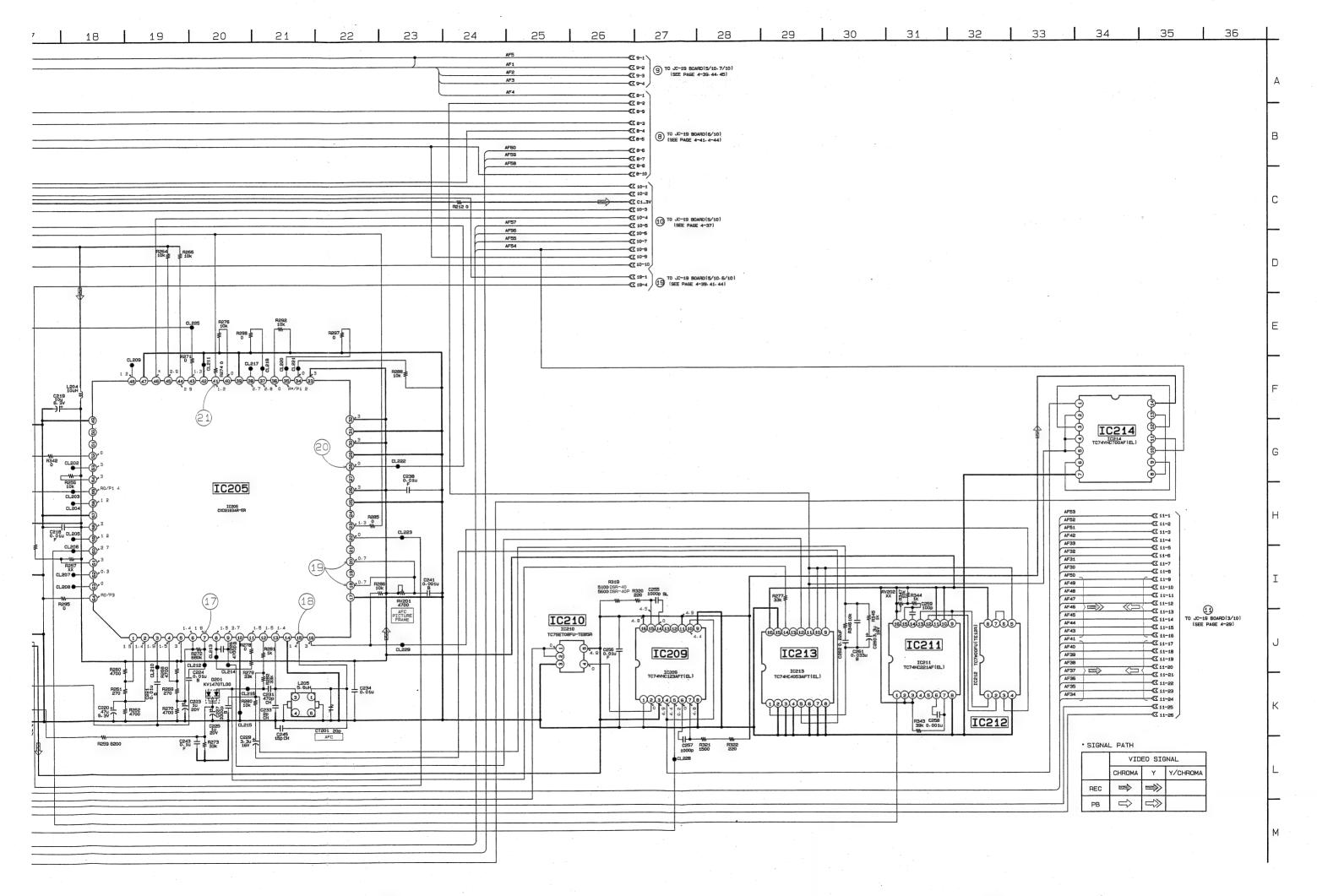


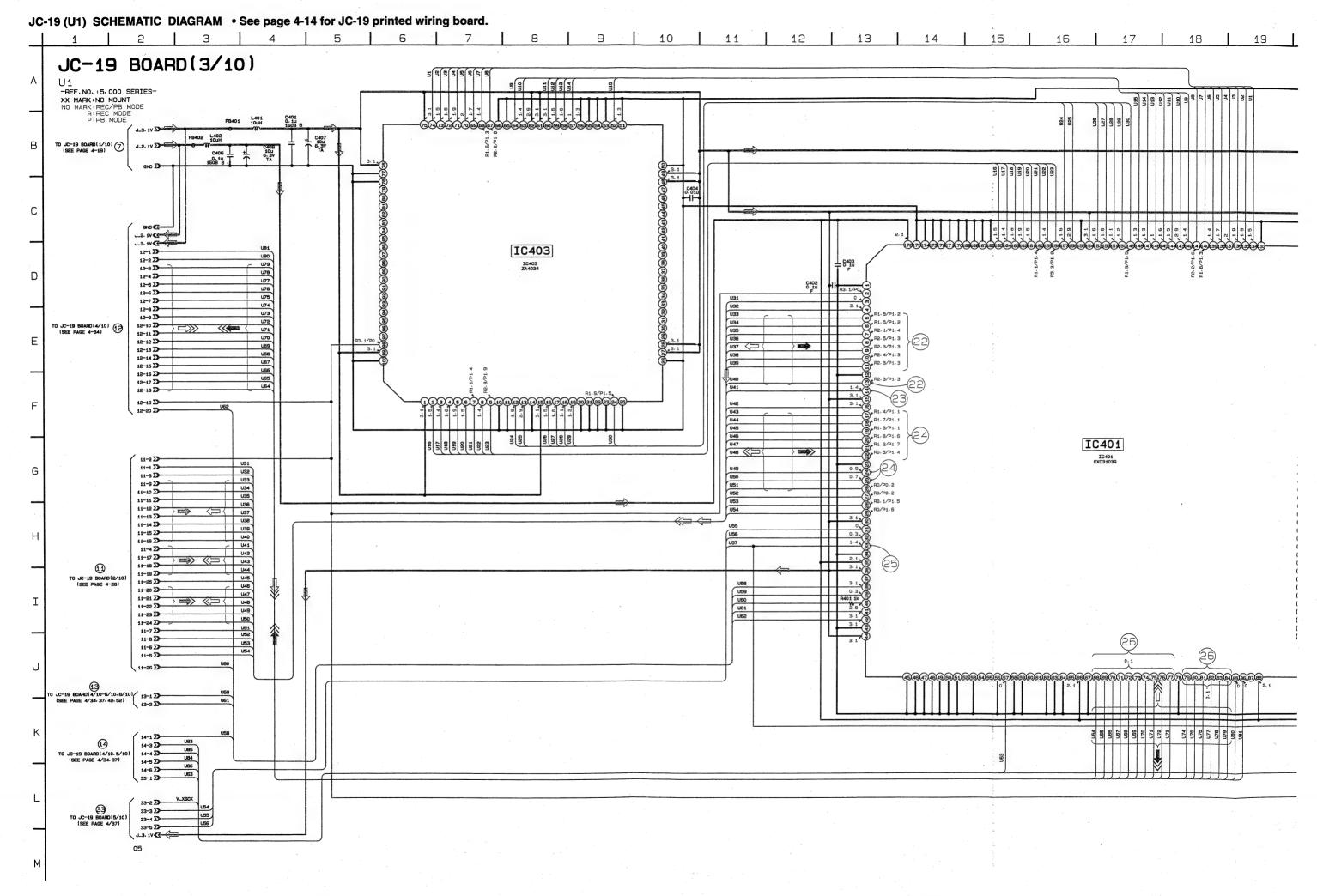


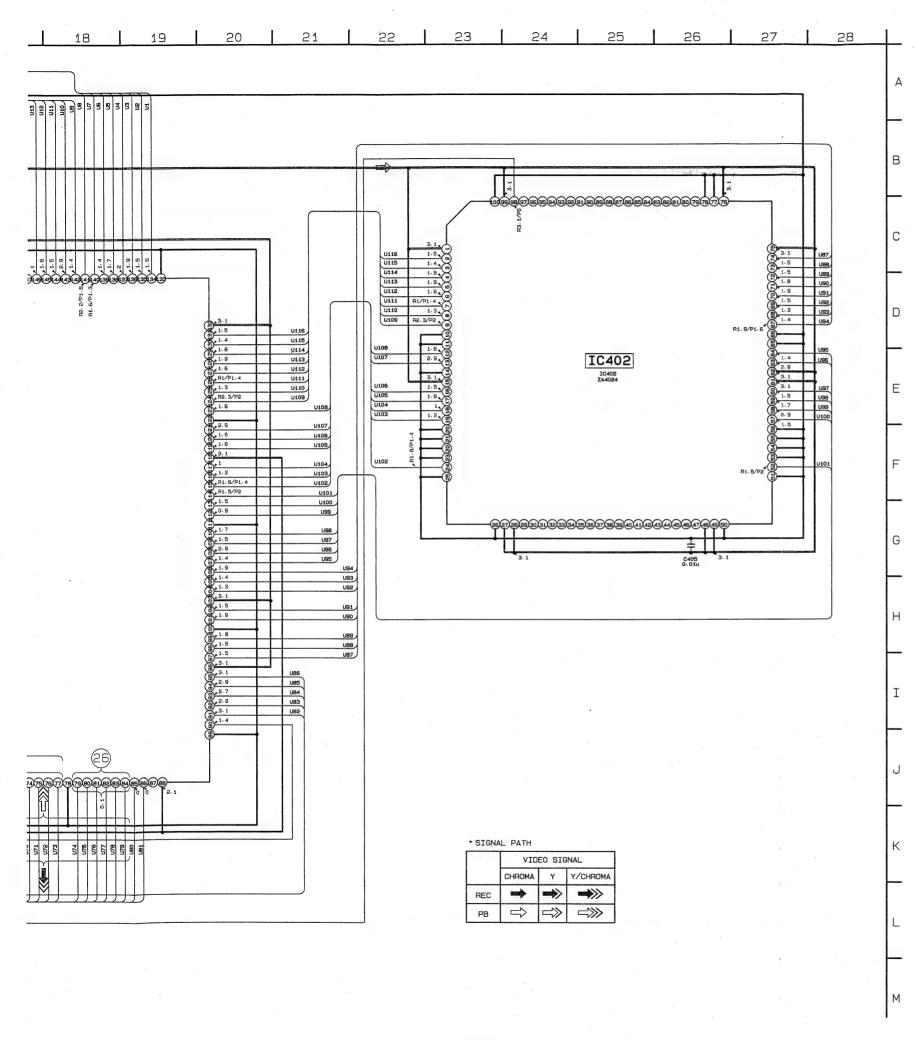


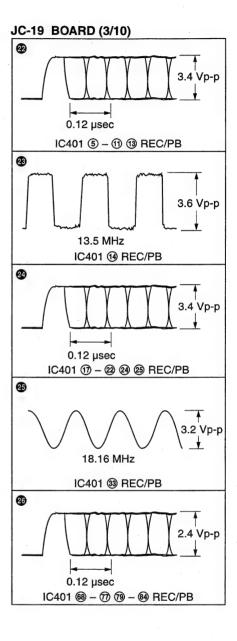


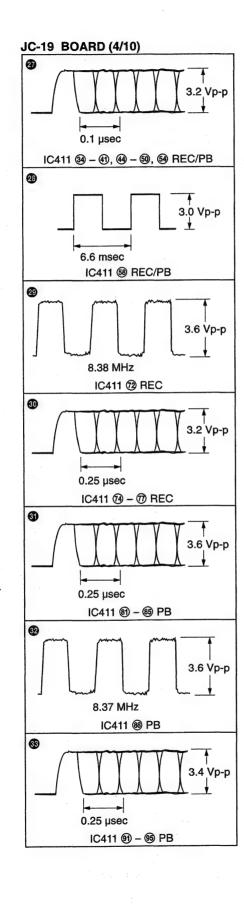


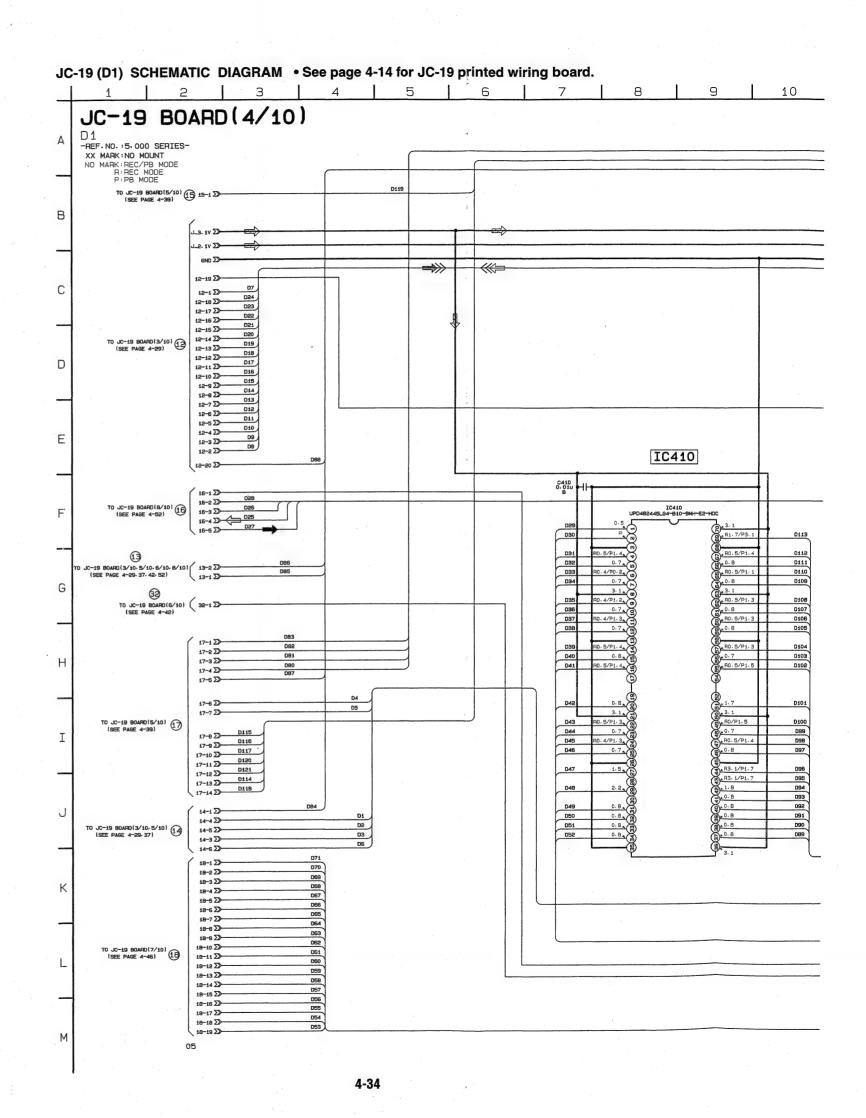


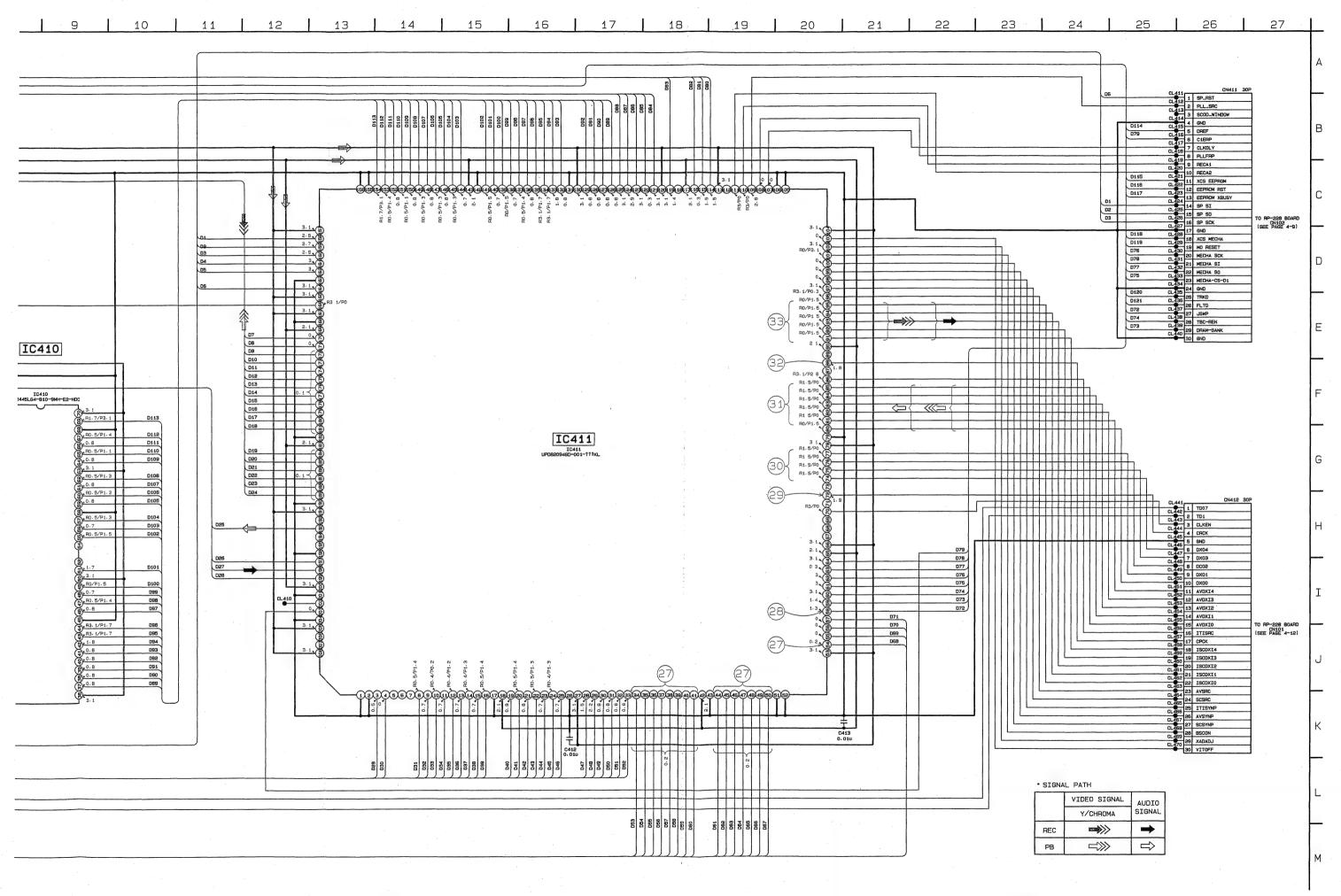


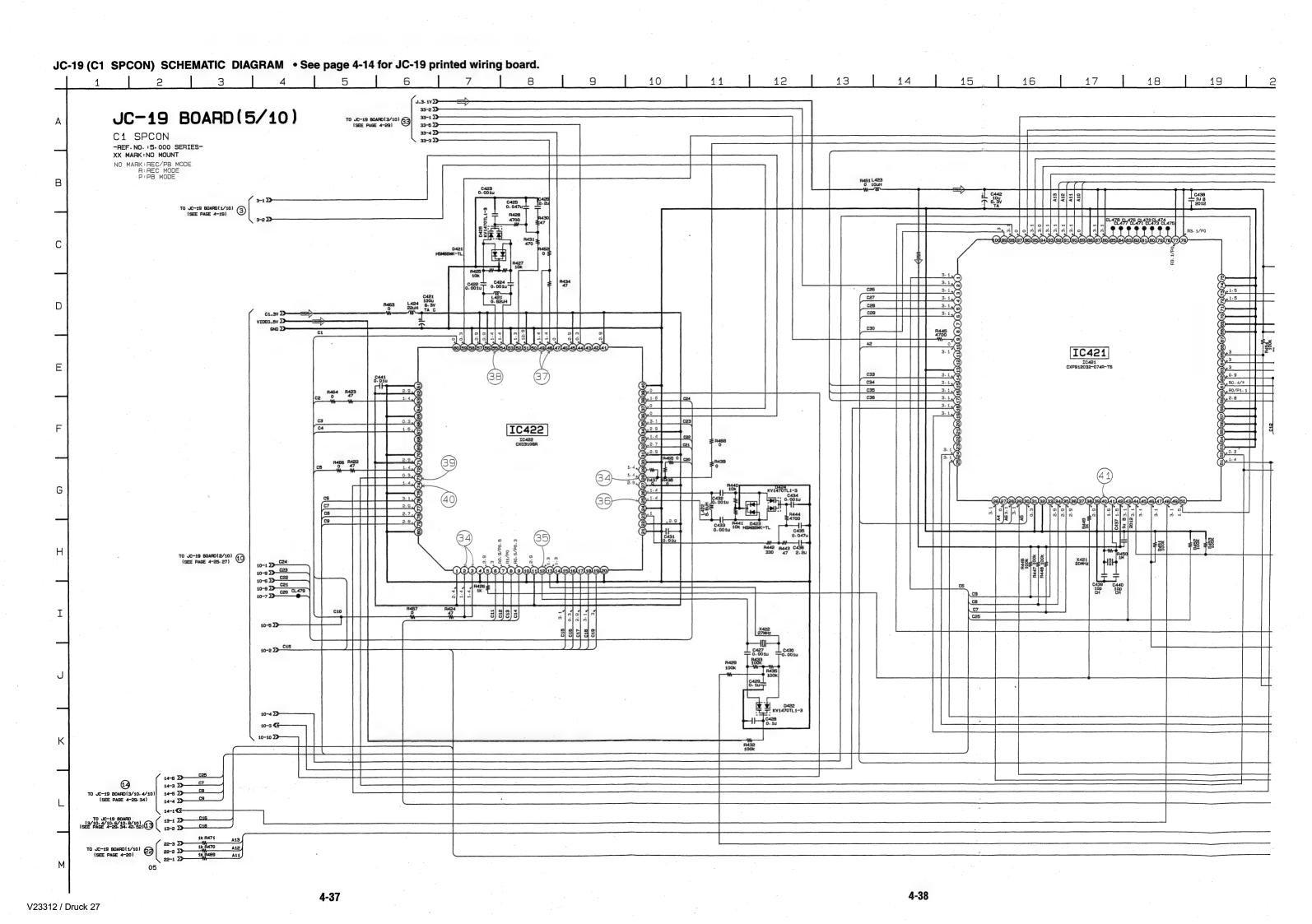


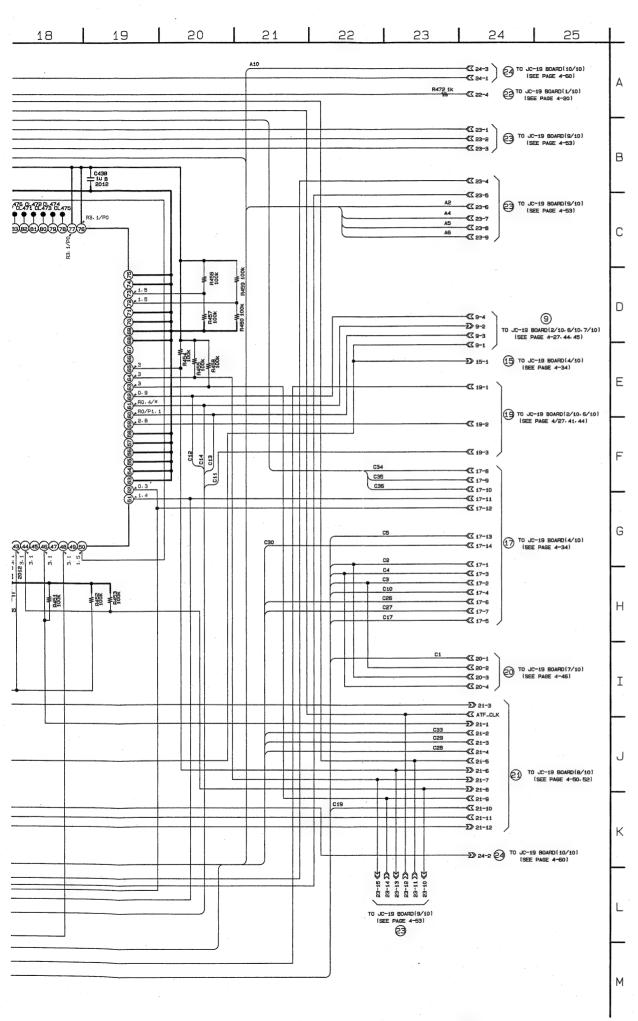


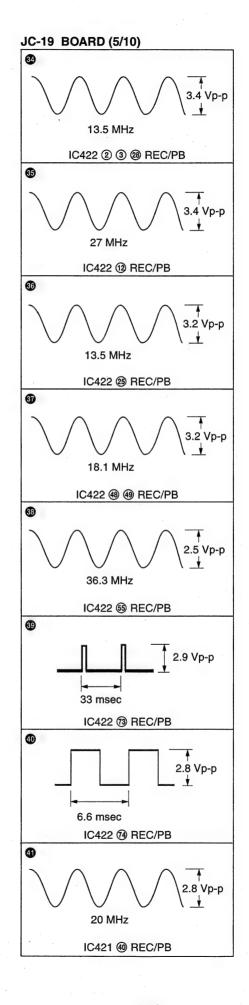


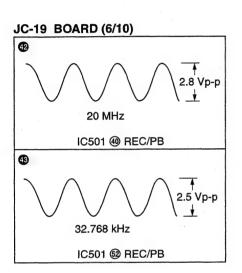


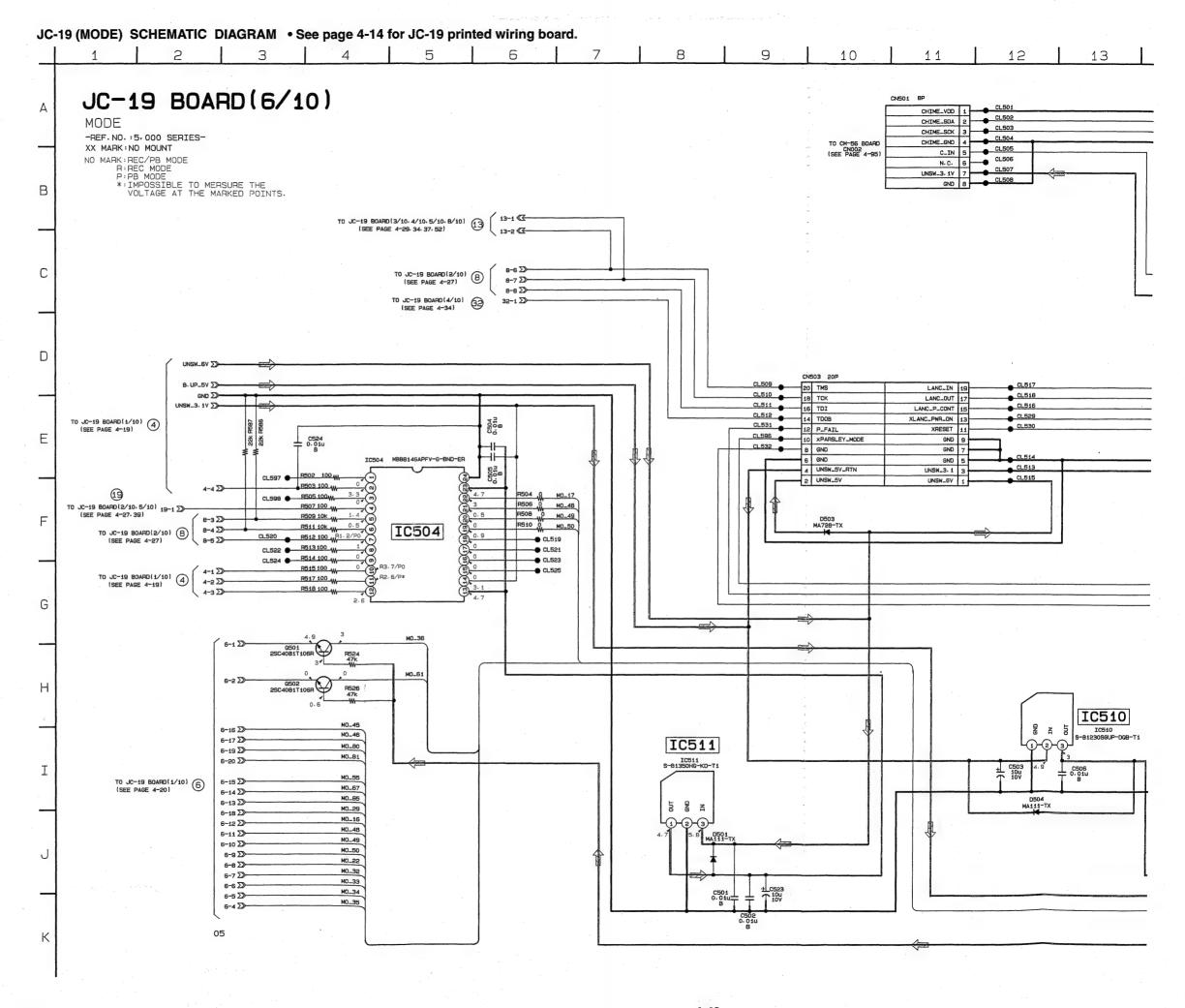


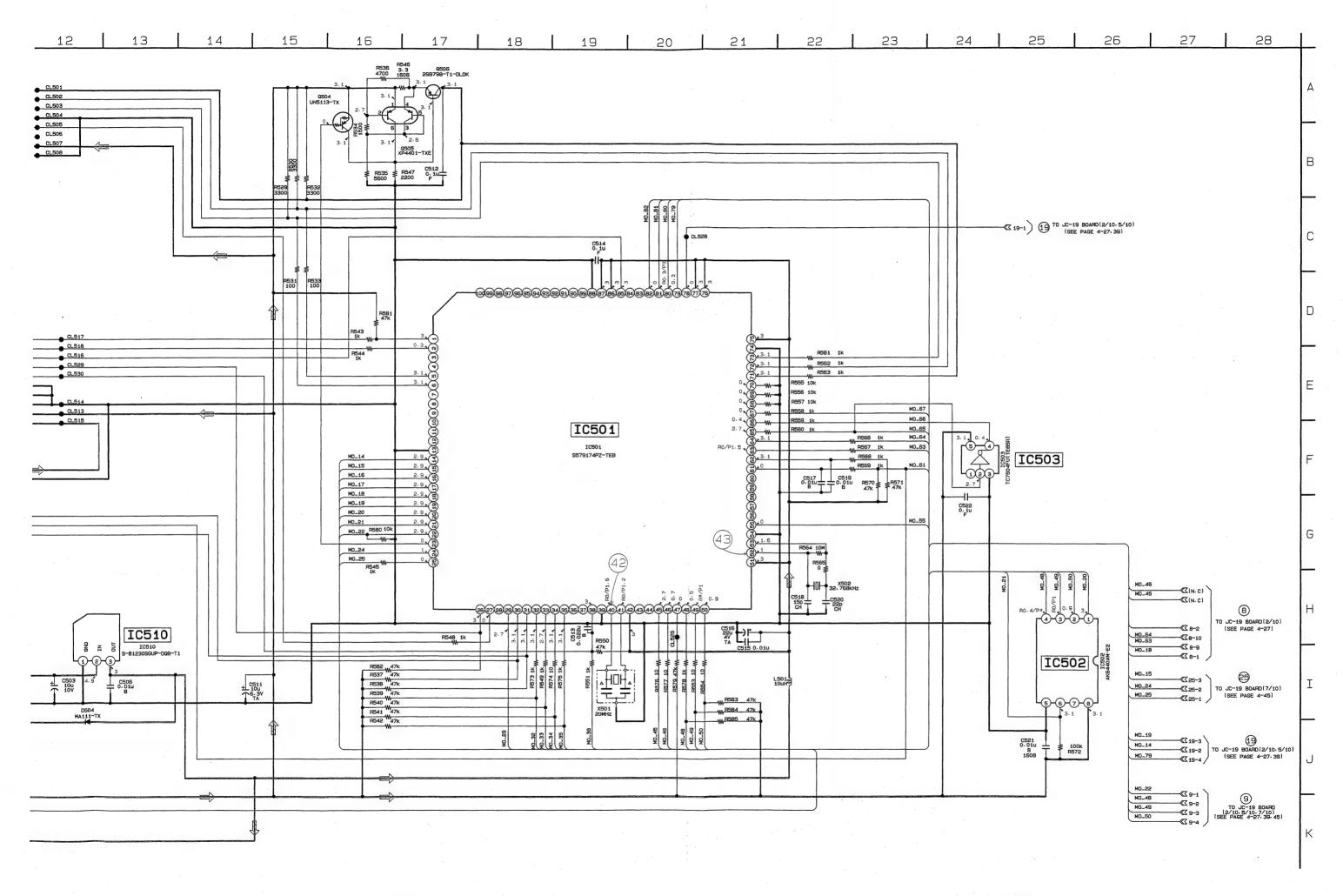


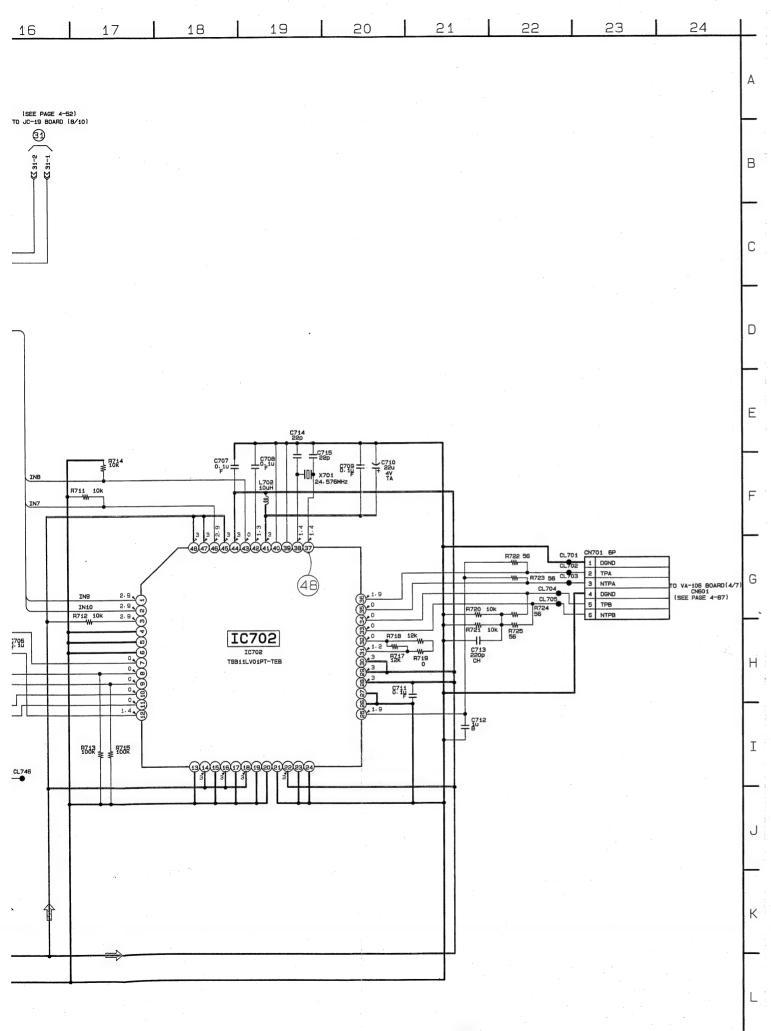


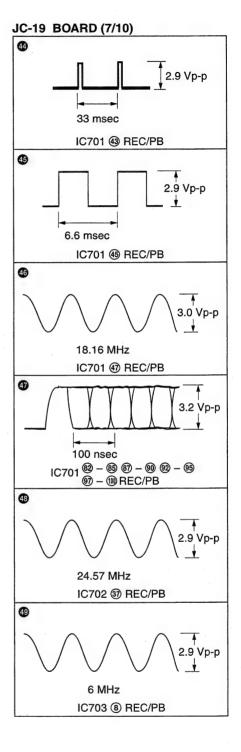


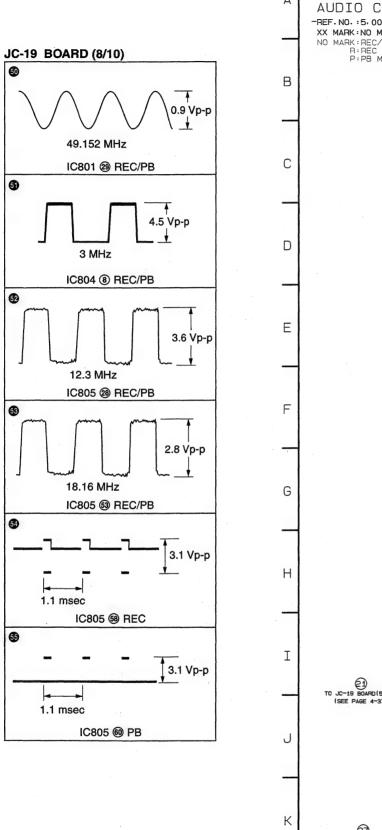


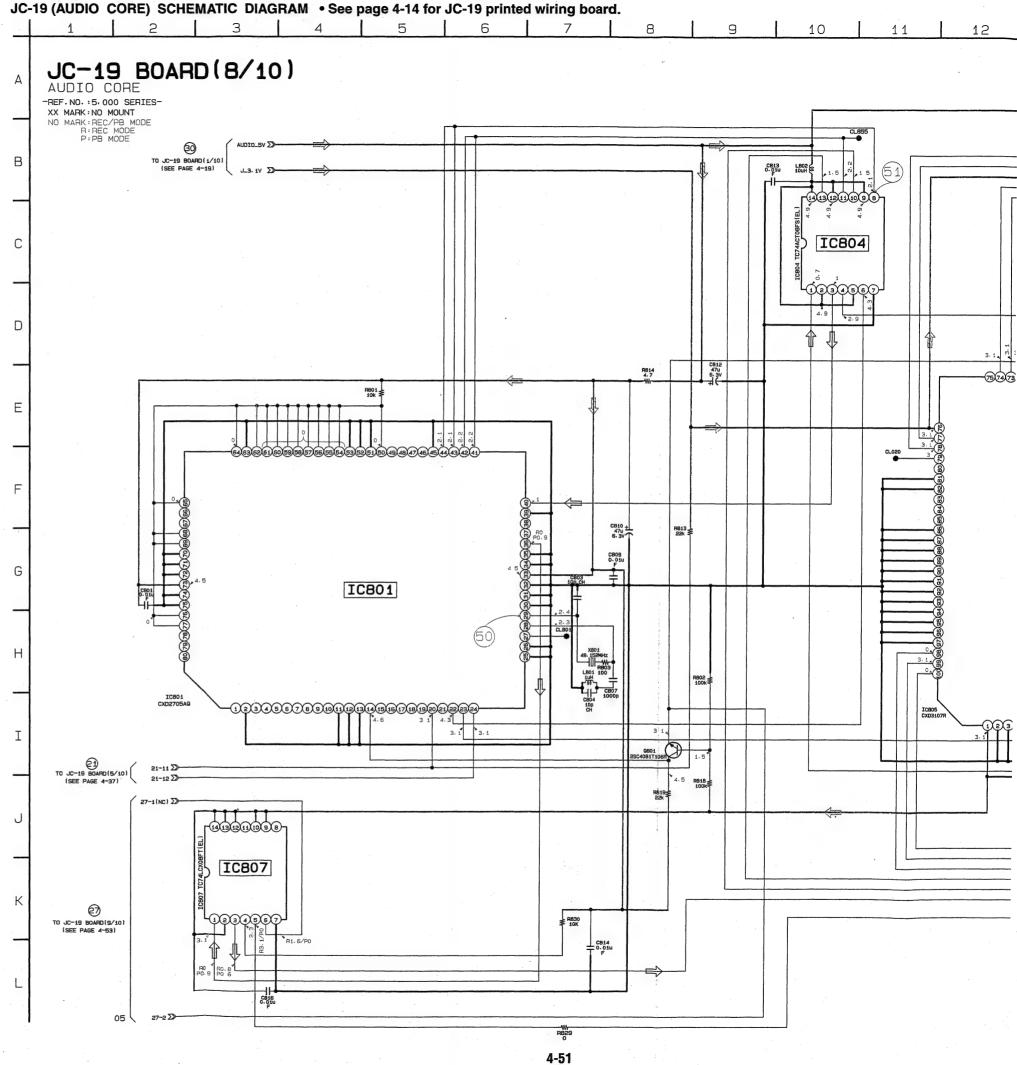


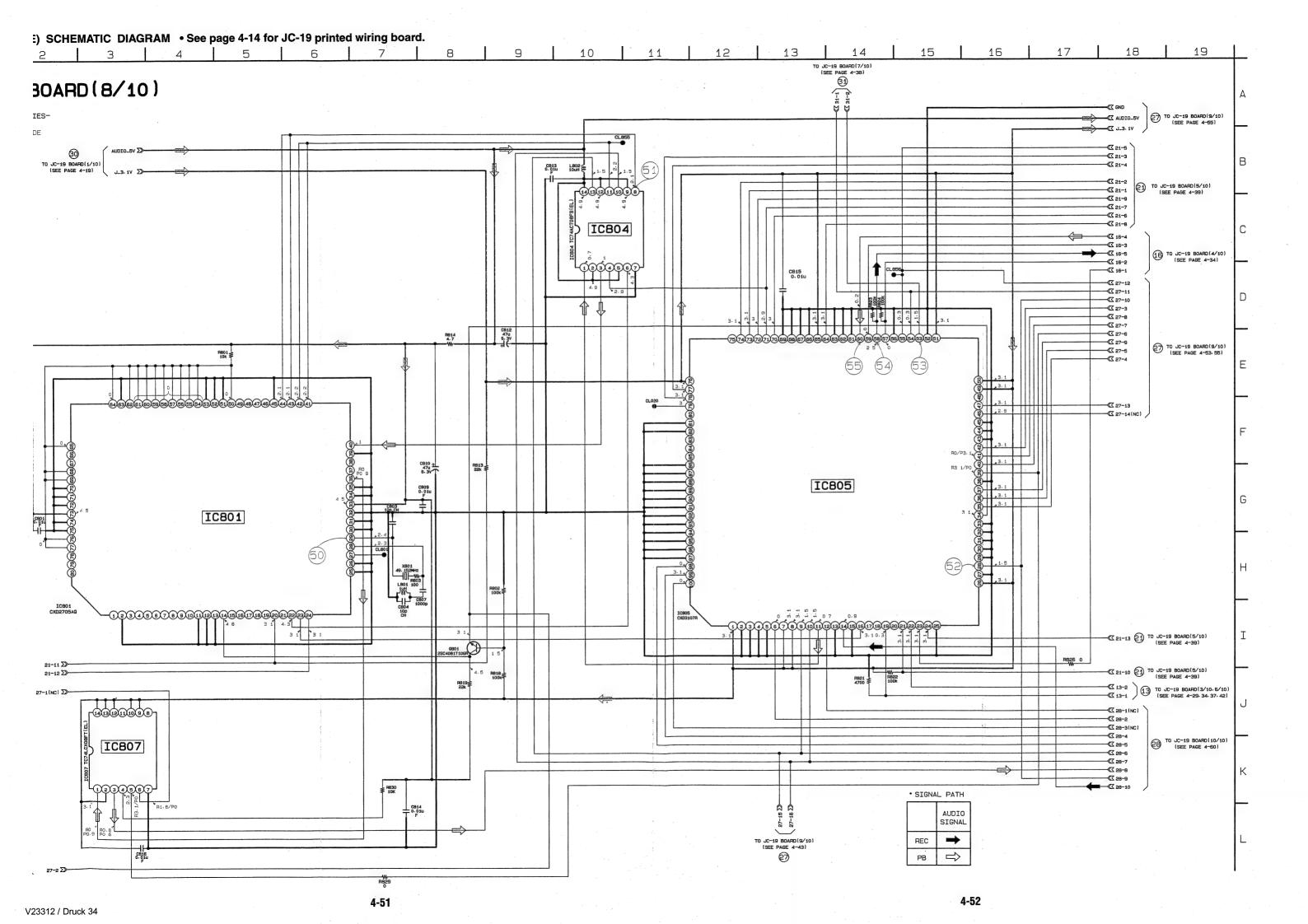


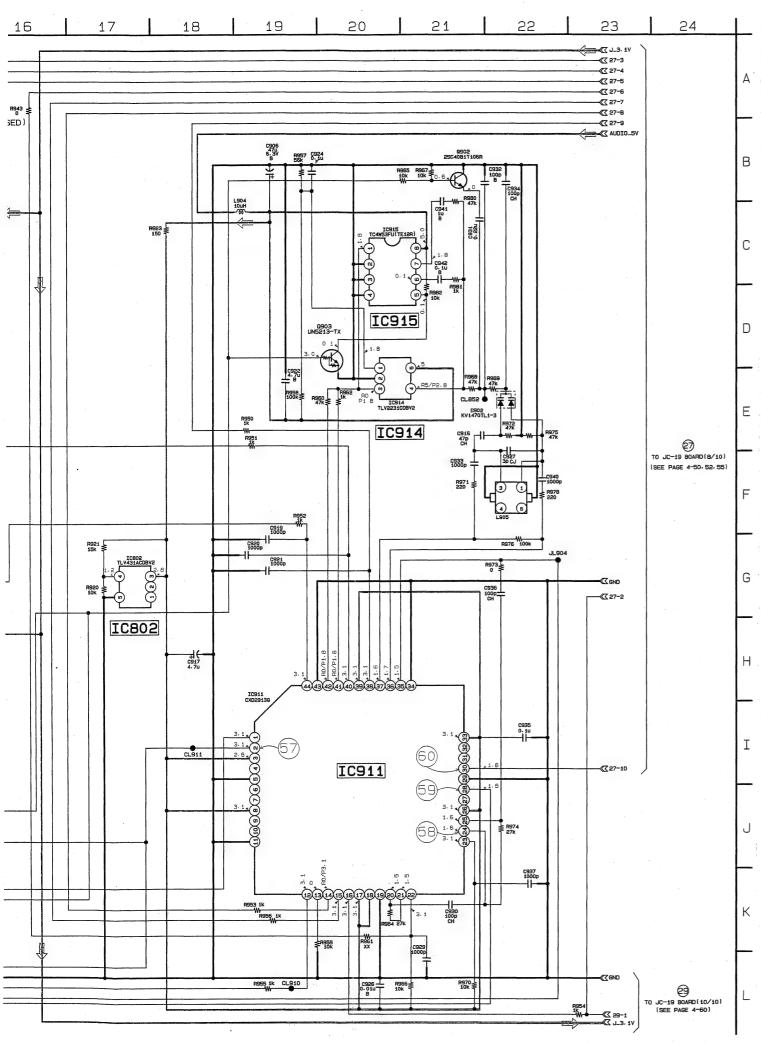


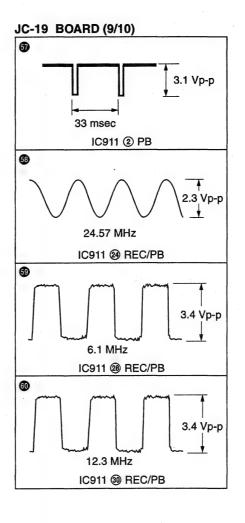


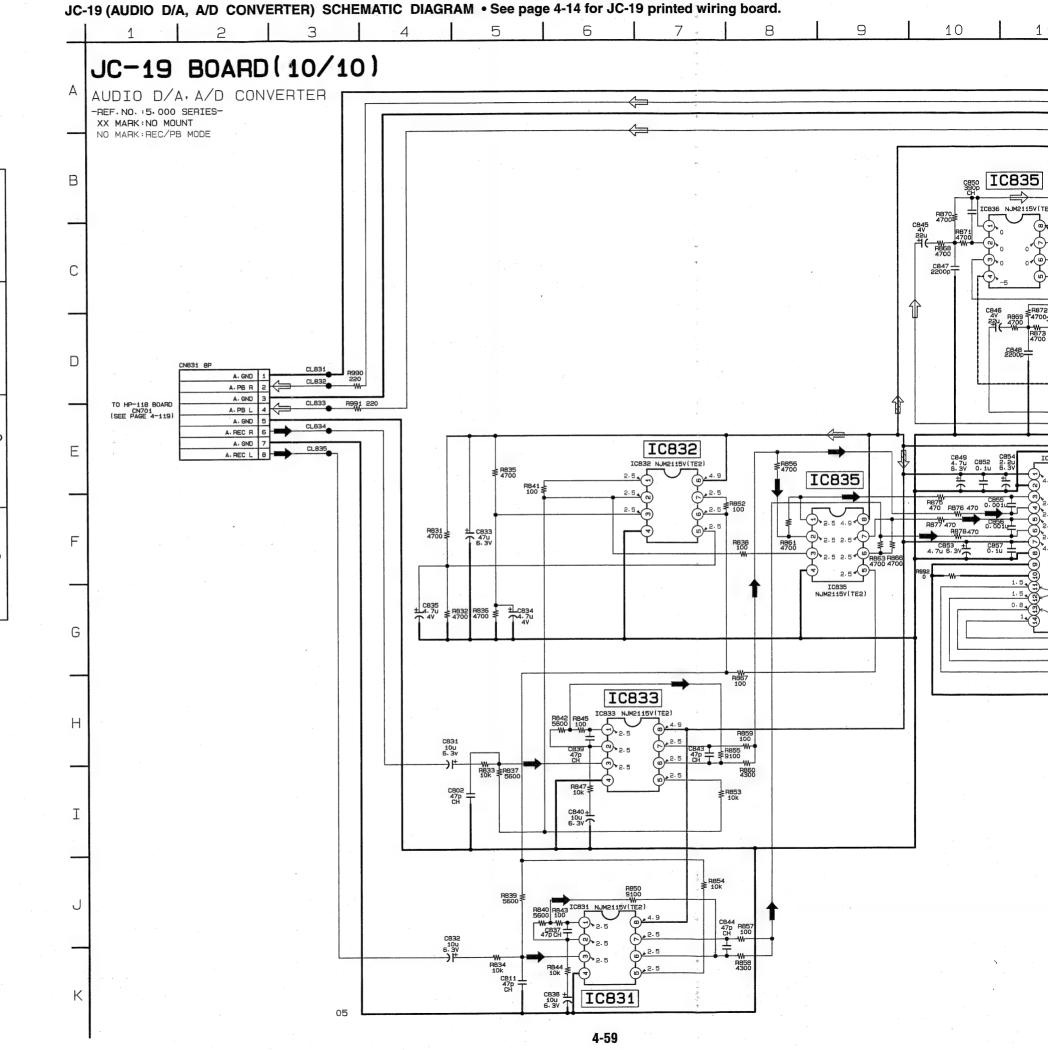


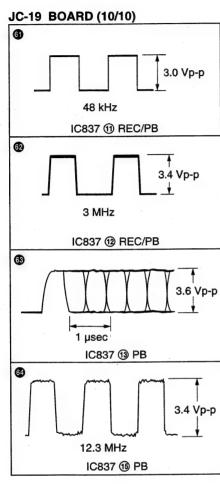


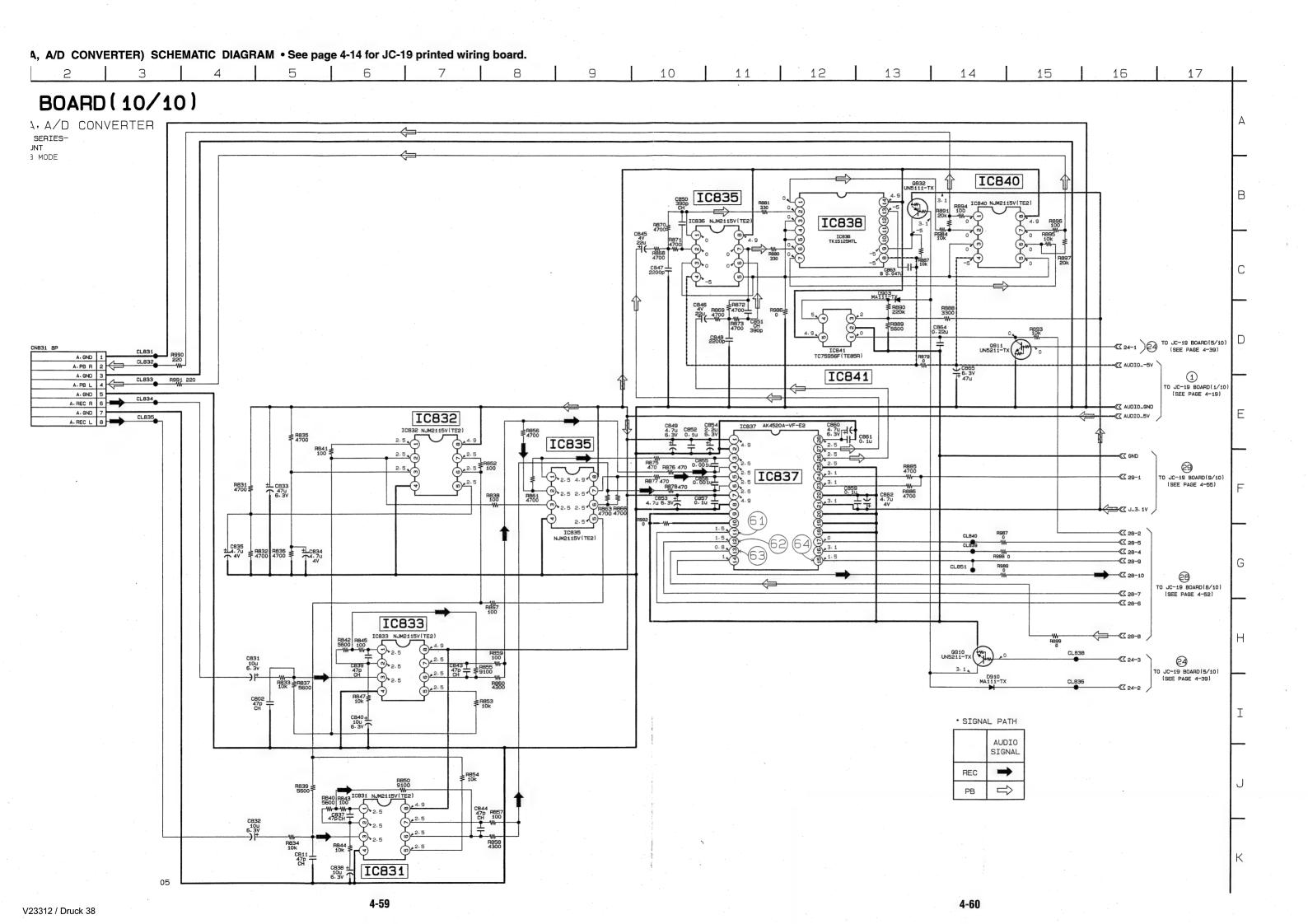








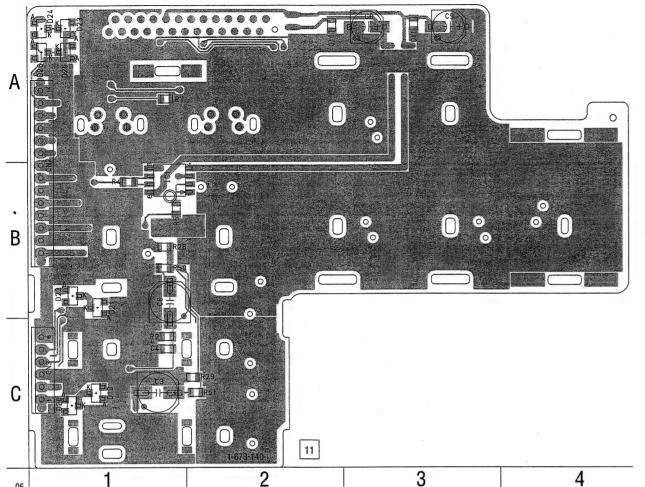




## RE-33 (V/A IN/OUT), CB-67 (AUDIO OUT) PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

- Ref. No.: RE-33 board; 6,000/CB-67 board; 6,000 series -

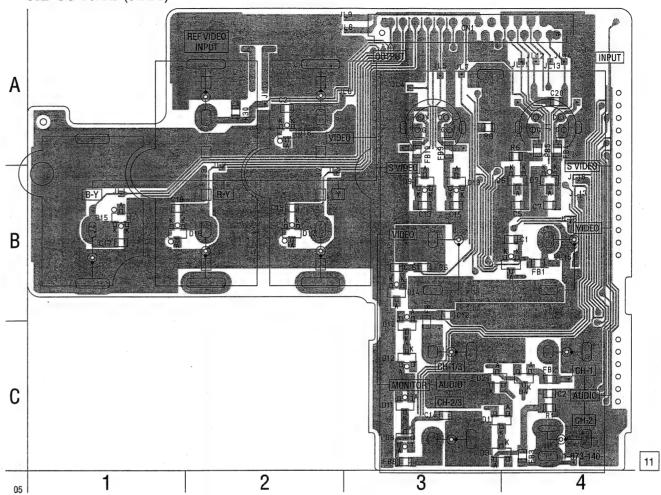
## RE-33 BOARD (SIDE A)



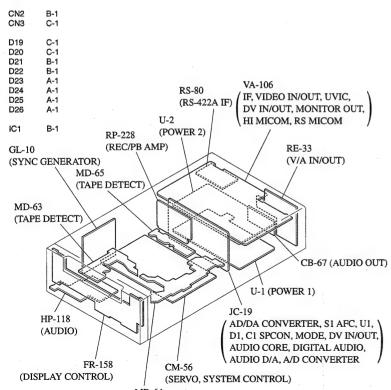
#### • For Printed Wiring Board.

 There are cases that the part isn't mounted in this model is printed on this diagram.

RE-33 BOARD (SIDE B)

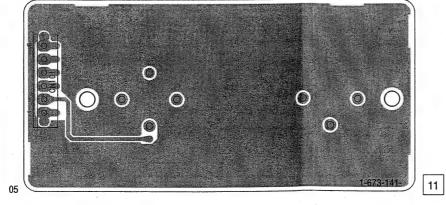


RE-33 BOARD (SIDE A)

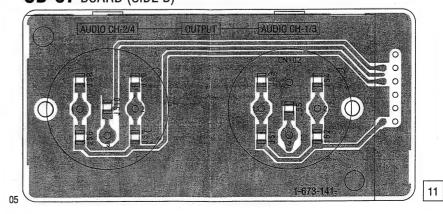


(TAPE DETECT)

CB-67 BOARD (SIDE A)



CB-67 BOARD (SIDE B)

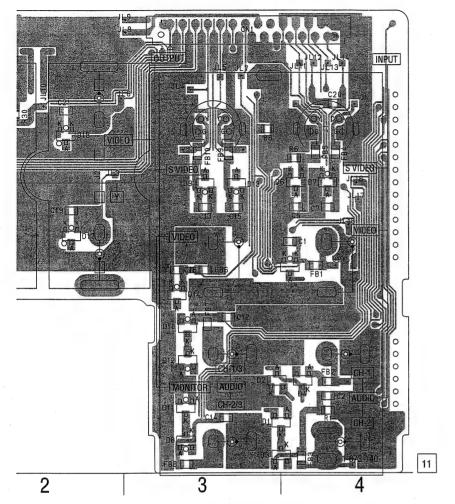


RE-33 BOARD (SIDE B)

D1 D2 D3 D4 D5 D6 D7 D8 D10 D11 D12 D13 D14 D15 D16 D17 D18

4-61

ed in this model is



RE-33 BOARD (SIDE B)

CN1 A-3

D1 C-3

D2 C-3

D3 C-3

D4 C-4

D5 B-4

D6 B-4

D7 B-4

D8 C-3

D9 B-3

D10 C-3

D11 C-3

D12 C-3

D12 C-3

D13 B-3

D14 B-3

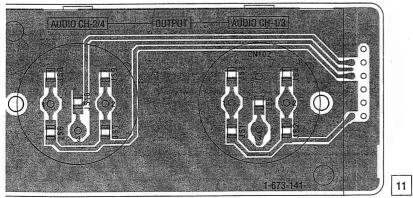
D15 B-1

D16 B-1

D17 B-2

D18 A-2

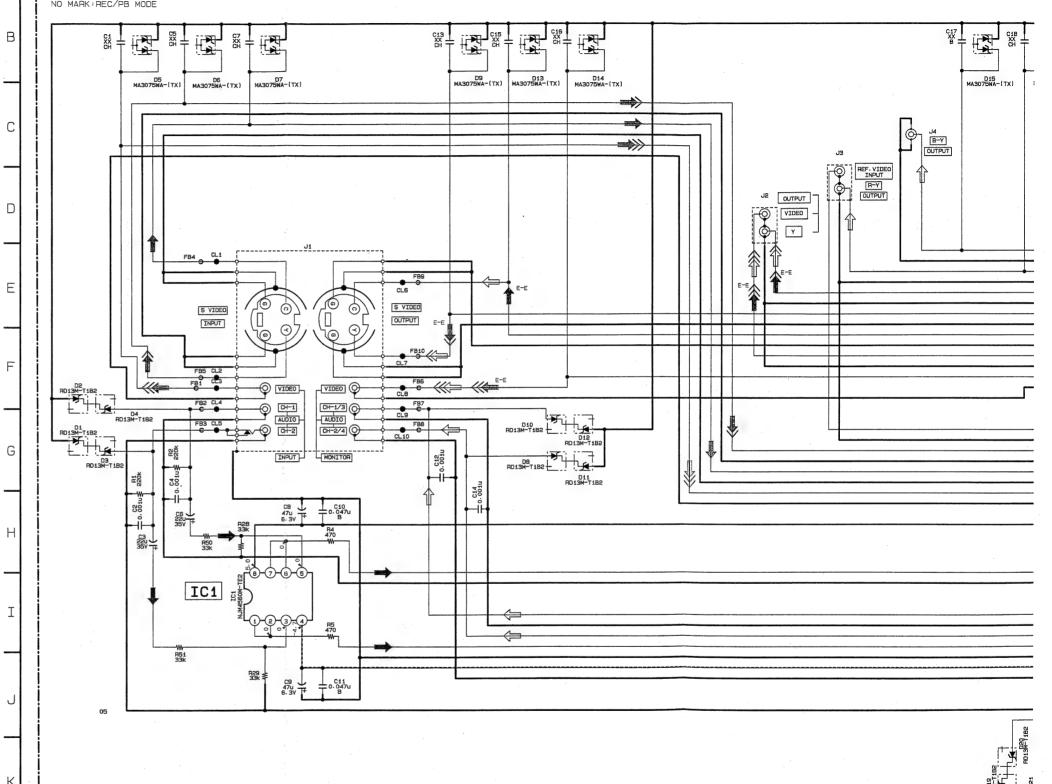
B-67 BOARD (SIDE B)



### 4-62

# RE-33 BOARD

V/A IN/OUT
-REF.NO.:6.000 SERIESXX MARK:NO MOUNT
NO MARK:REC/PB MODE

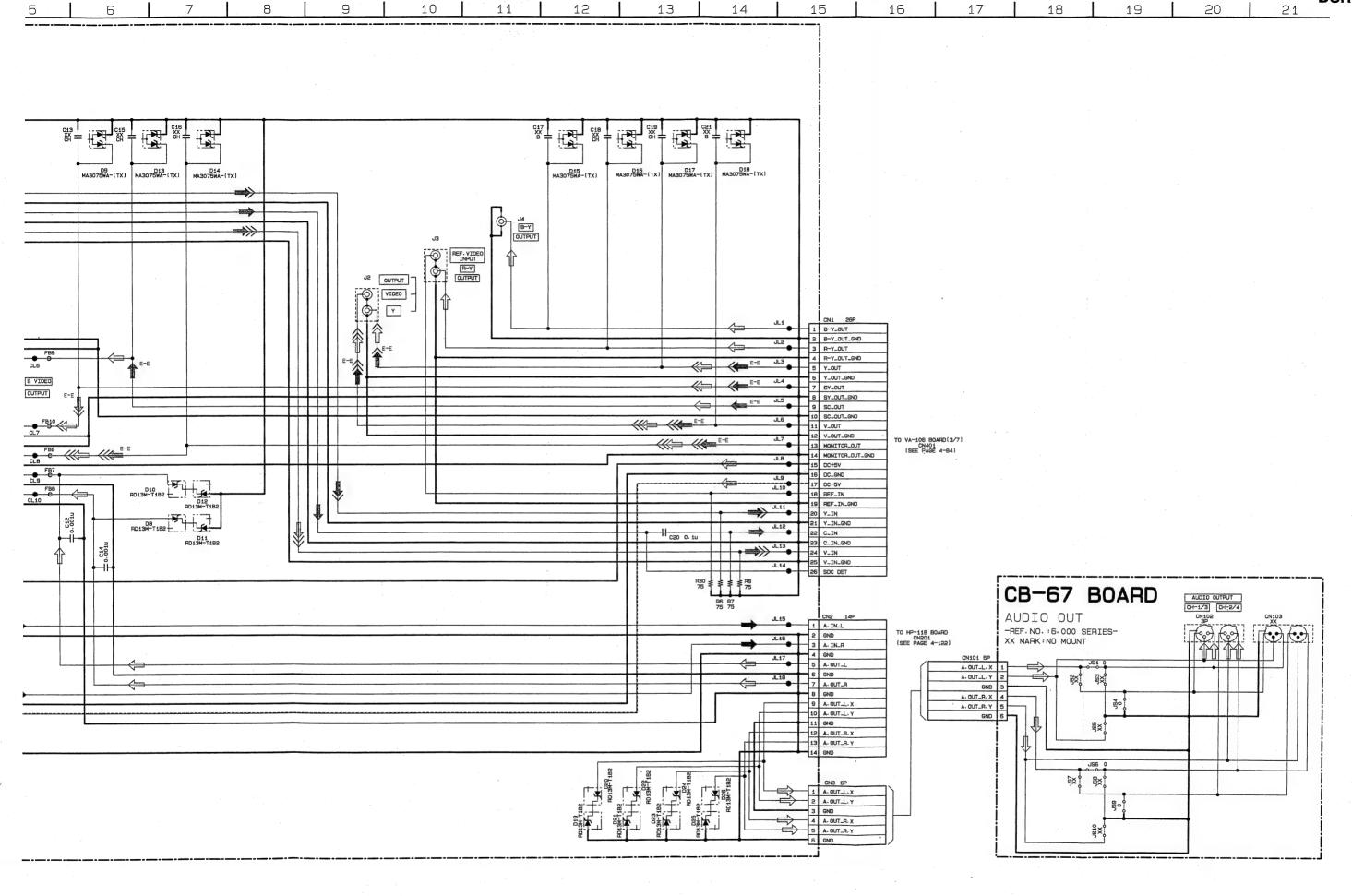


· SIGNAL PATH

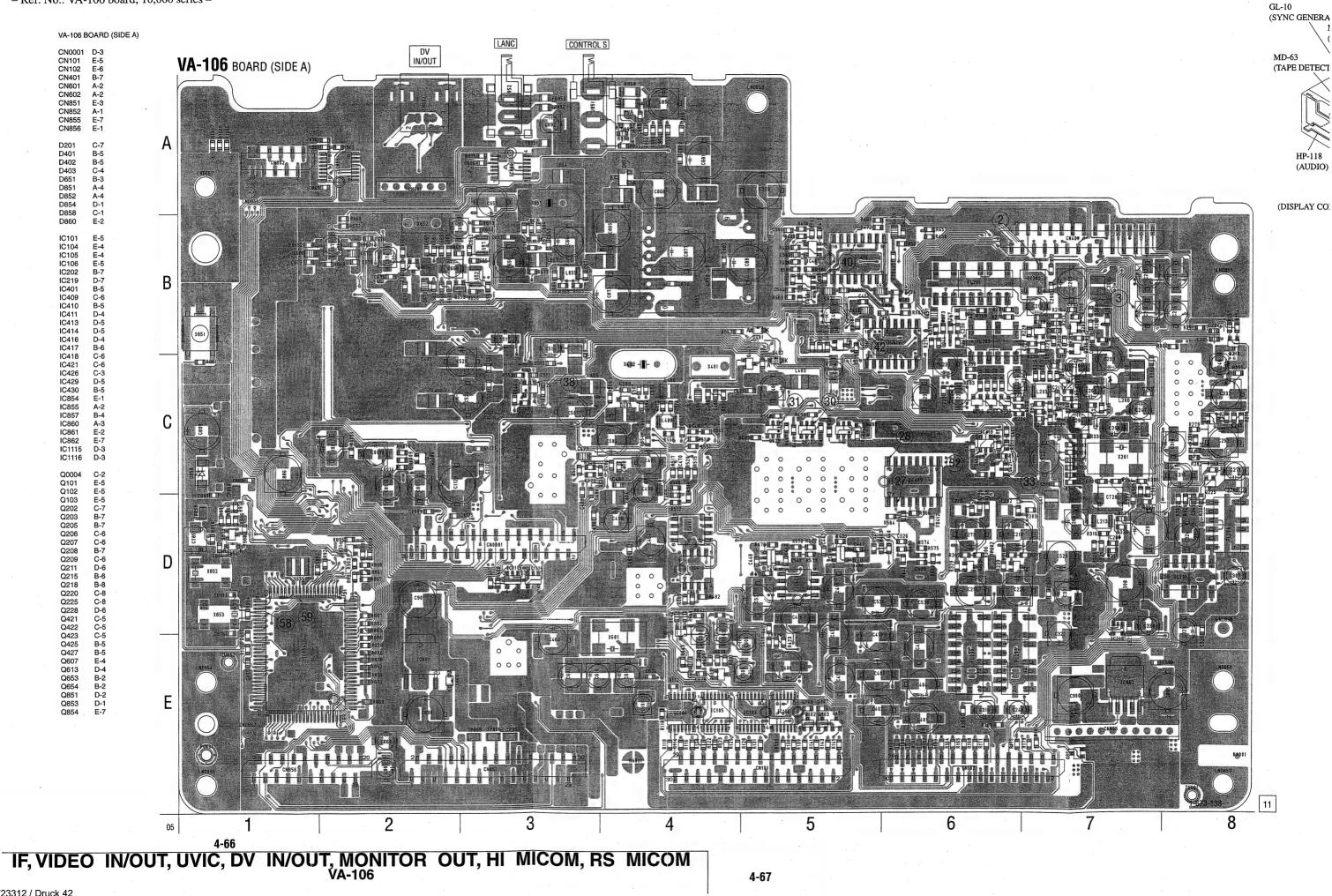
Μ

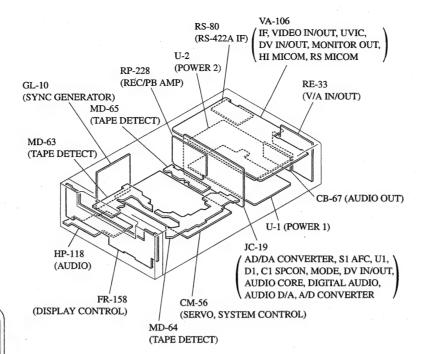
	VIDEO SIGNAL			AUDIO
	CHROMA	Υ	Y/CHROMA	SIGNAL
REC				-
РВ	$\Rightarrow$	➾	⊏⋙	$\Rightarrow$



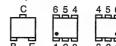


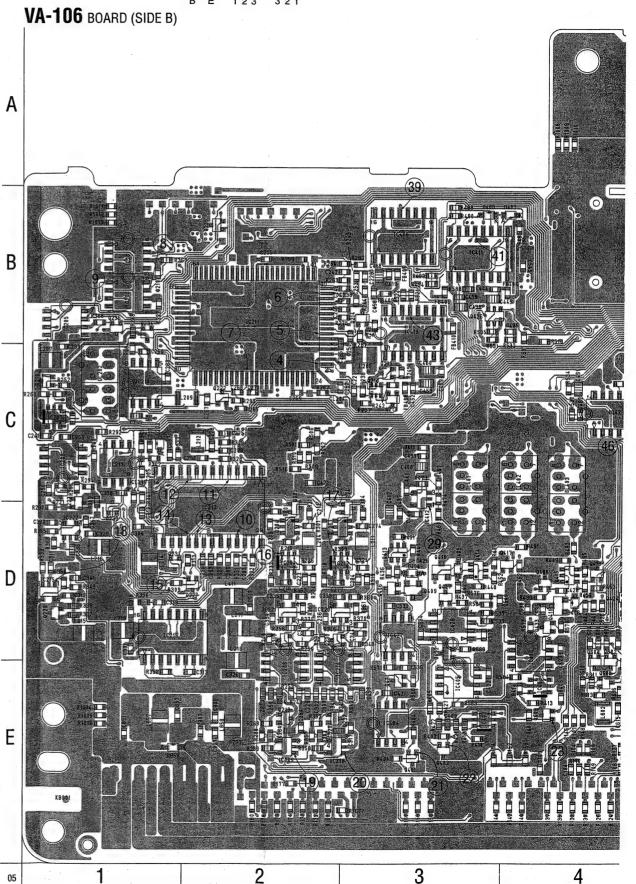
VA-106 (IF, VIDEO IN/OUT, UVIC, DV IN/OUT, MONITOR OUT, HI MICOM, RS MICOM) PRINTED WIRING BOARD - Ref. No.: VA-106 board; 10,000 series -





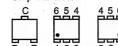
- For Printed Wiring Board.
- VA-106 board is 4-layer print board. However, the patterns of layers 2 to 3 have not been included in the diagram.
- There are few cases that the part isn't mounted in this model is printed on this diagram.
- Chip transistor

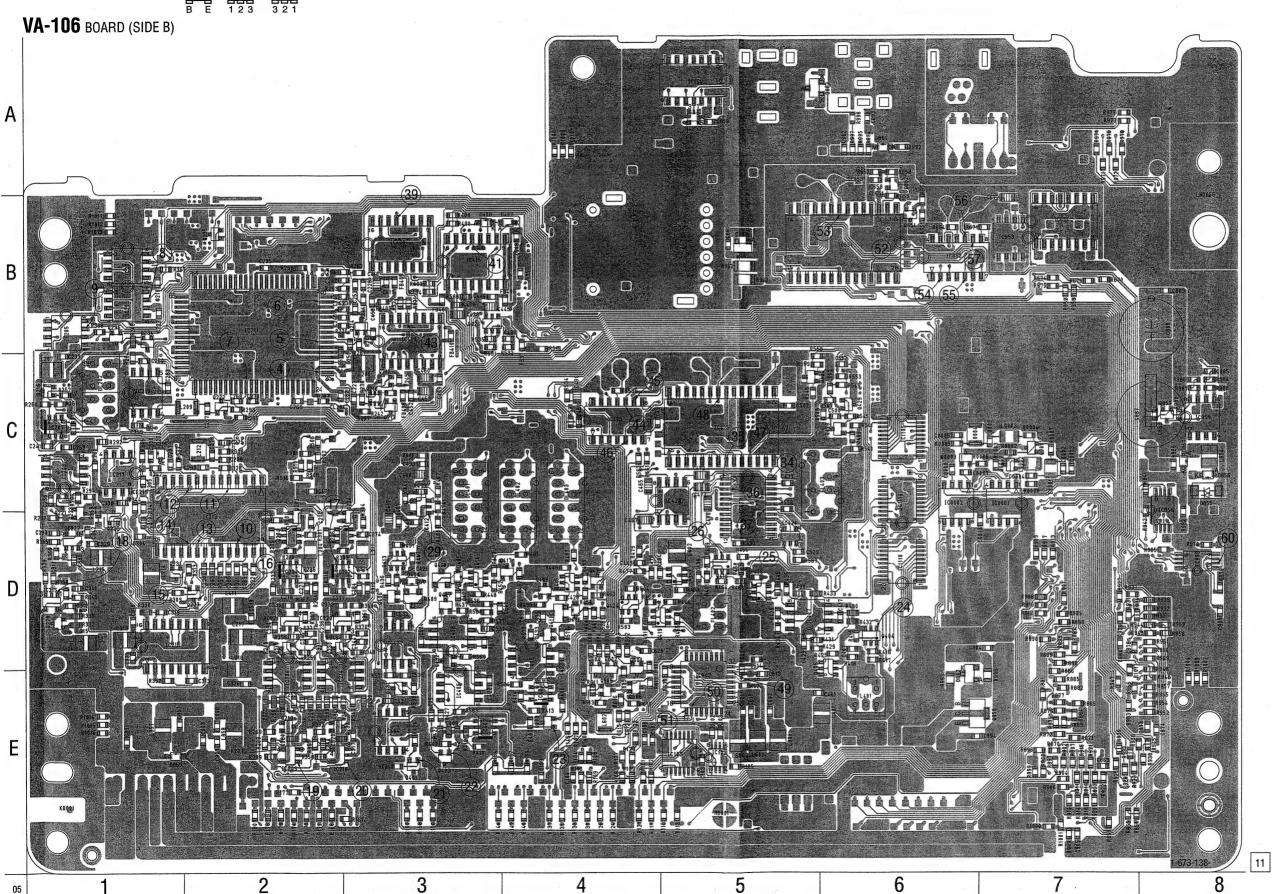




0 9 0 0 CN855 0 9 0 0 0

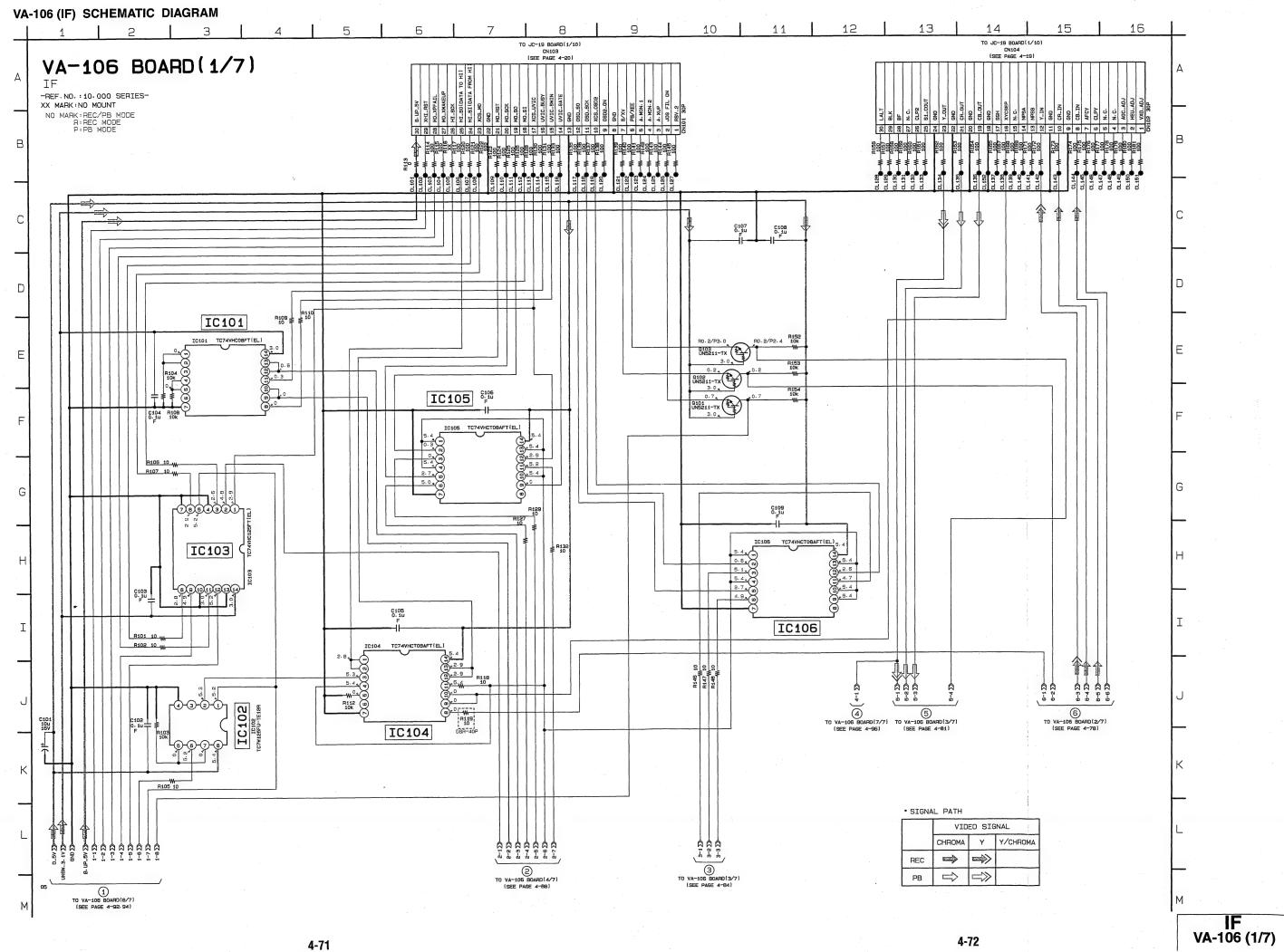
- For Printed Wiring Board.
- VA-106 board is 4-layer print board. However, the patterns of layers 2 to 3 have not been included in the diagram.
- There are few cases that the part isn't mounted in this model is printed on this diagram.
- Chip transistor

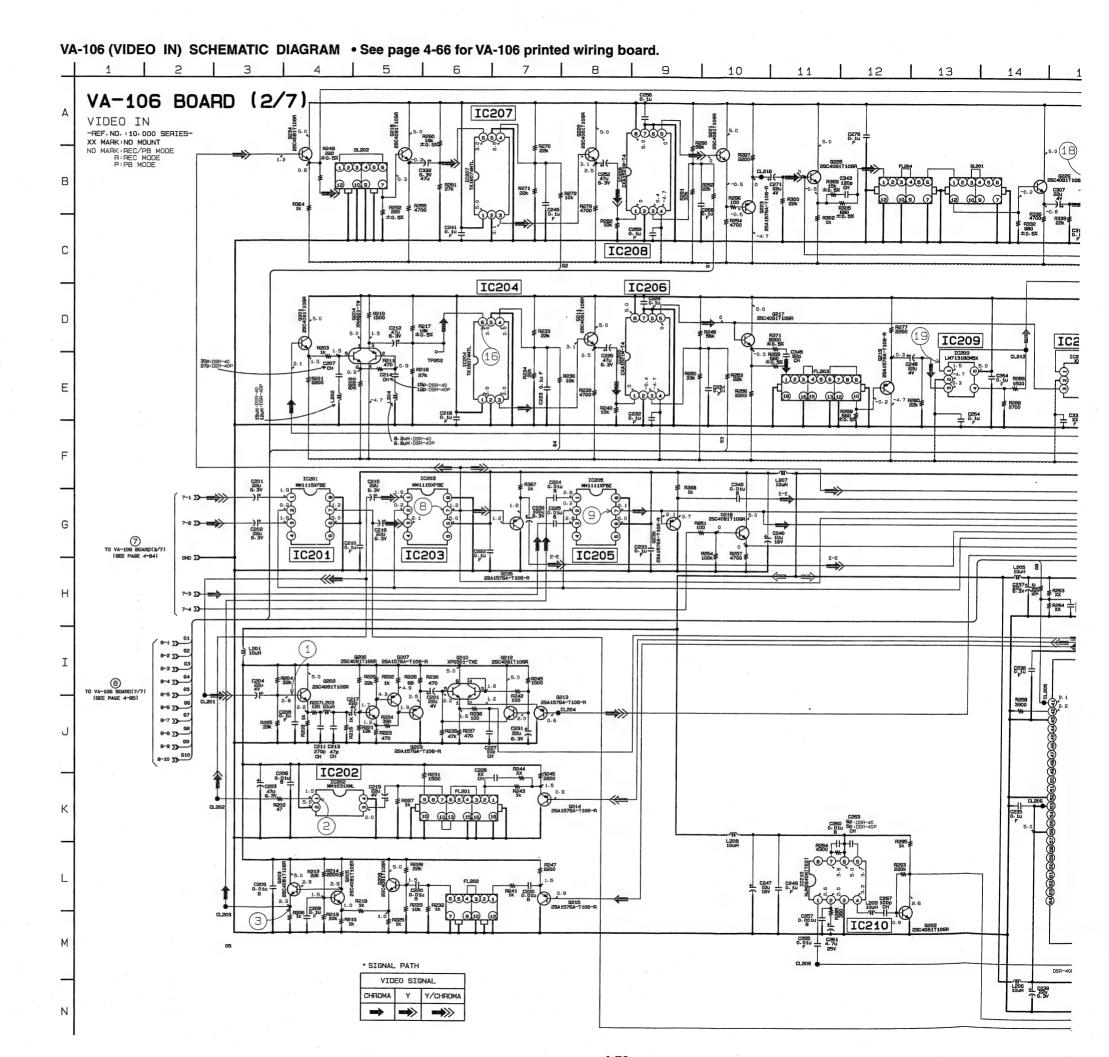


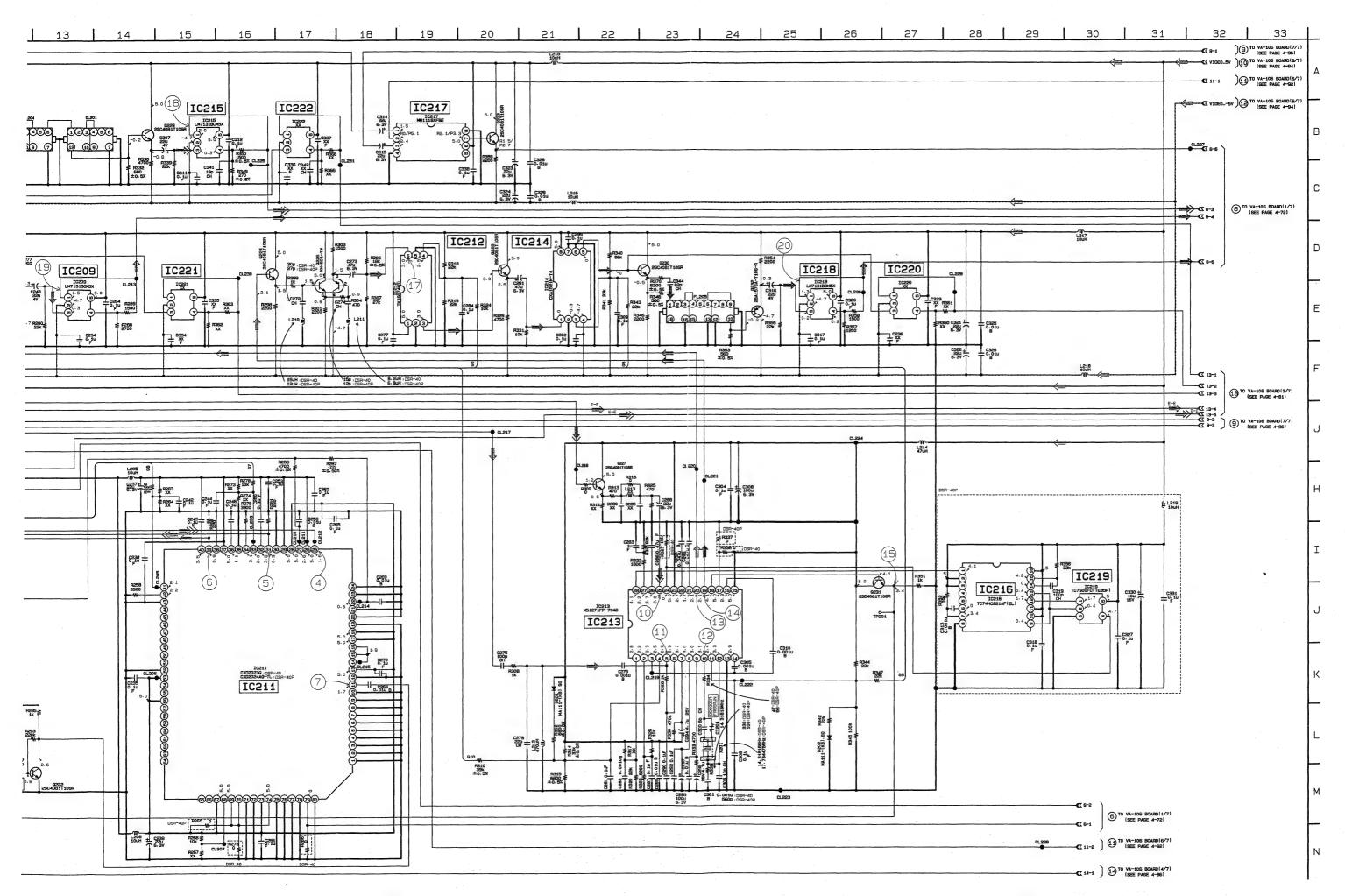


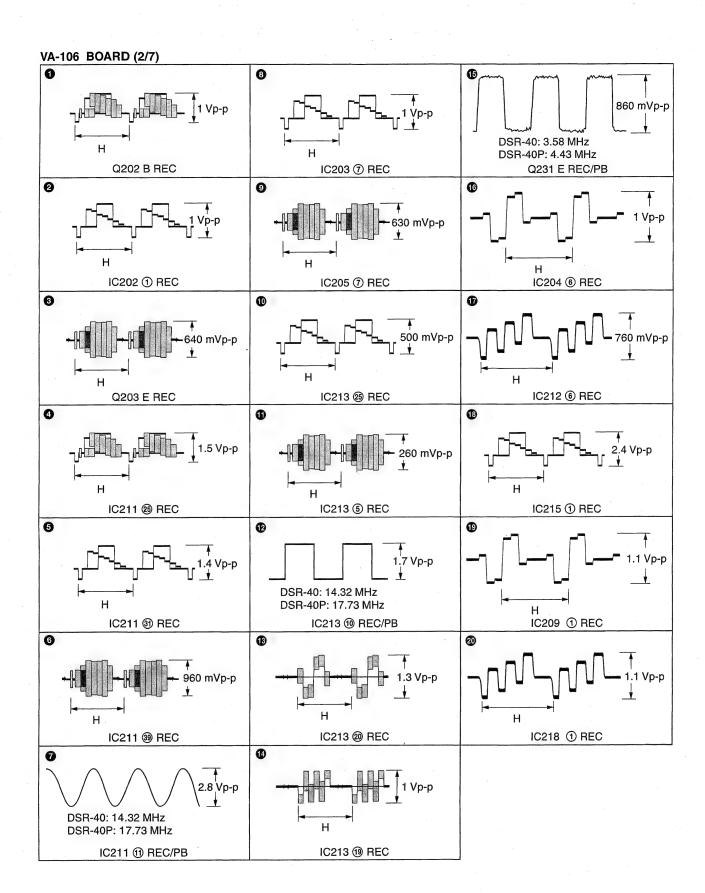
1// 100	BOARD	CIDE	Е

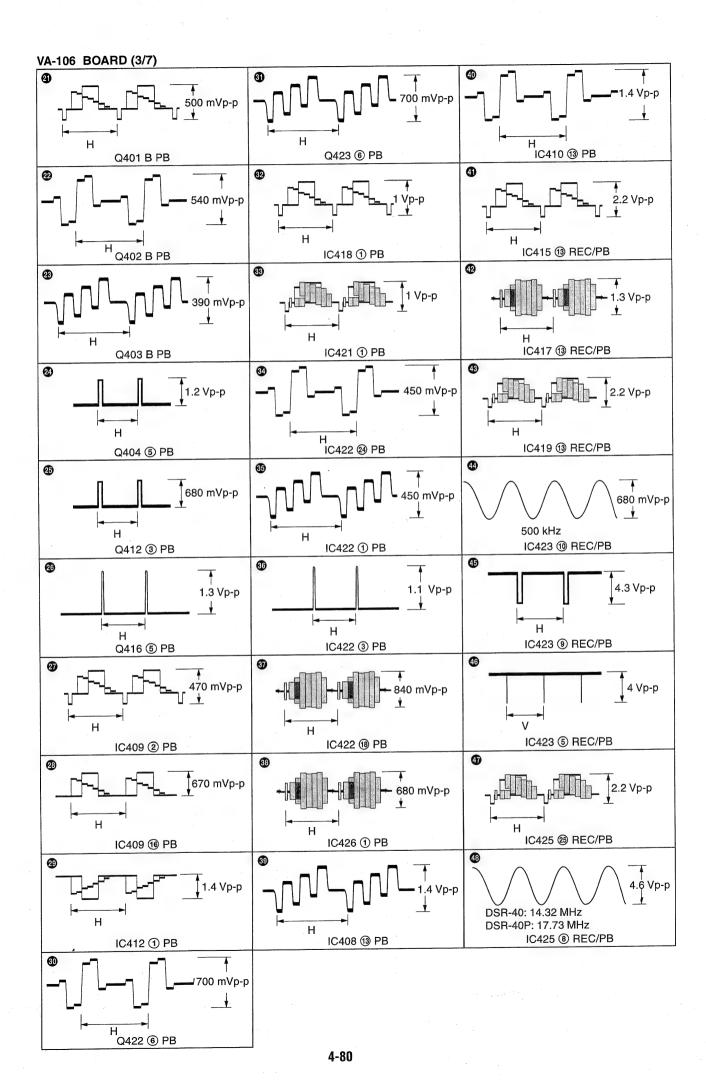
D202 D404 D405	C-1 D-3 D-3 D-4 B-4 B-3		IC1110 IC1114	D-6 C-6
D406 D407 D408			Q0001 Q0002 Q0003	C-7 C-7 C-6
D855 D856 D857	C-8 C-8 C-8		Q201 Q204 Q210	C-2 D-2
D859 D862	E-1 E-6		Q212 Q213	C-3 C-3 C-3
D863	A-5 C-7		Q214 Q216 Q217	B-3 C-1 D-2
IC0002	C-6		Q219	E-2
IC102	E-5		Q221	C-1
IC103	E-5		Q222	C-2
IC201	B-1		Q223	D-1
IC203	B-1		Q224	D-3
IC204	D-2		Q226	D-3
IC205	B-1		Q227	D-2
IC206	E-2		Q229	D-1
IC207	C-1		Q230	D-3
IC208	C-1		Q231	D-1
IC209	E-2	-	Q232	E-2
IC210	C-1		Q233	D-1
IC211	B-2		Q234	B-1
IC212 IC213 IC 214	D-2 D-2		Q235 Q236 Q401	B-2 B-1
IC215 IC216	E-2 D-1 D-1		Q402 Q403	E-3 E-3 E-4
IC217	C-1		Q404	D-6
IC218	E-2		Q405	D-6
IC220	D-2		Q406	D-3
IC221 IC222 IC402	D-2 D-1 E-3		Q407 Q408 Q409	D-3 D-4
IC403 IC404	E-4 E-3		Q410 Q411	D-3 D-3 D-4
IC405	E-3		Q412	D-5
IC406	D-4		Q413	D-3
IC407	D-5		Q414	D-3
IC408	B-3		Q415	D-4
IC412	D-3		Q416	D-5
IC415	B-3		Q417	D-4
IC419	B-3		Q418	D-4
IC420	C-5		Q419	D-4
IC422	C-5		Q420	D-5
IC423	C-4		Q426	B-3
IC424	D-5		Q428	C-6
IC425	C-5		Q429	C-6
IC427	D-3		Q430	C-5
IC428	D-3		Q431	E-3
IC602	E-5		Q432	D-3
IC651	B-6		Q433	D-4
IC652	B-6		Q601	D-4
IC653	B-7		Q602	D-4
IC654	B-7		Q604	D-4
IC851	A-5		Q605	E-4
IC853	A-5		Q606	E-4
IC856	C-8		Q651	B-6
IC858	D-8		Q652	A-6
IC859	C-8		Q852	C-8
IC1105	C-6		Q855	E-6

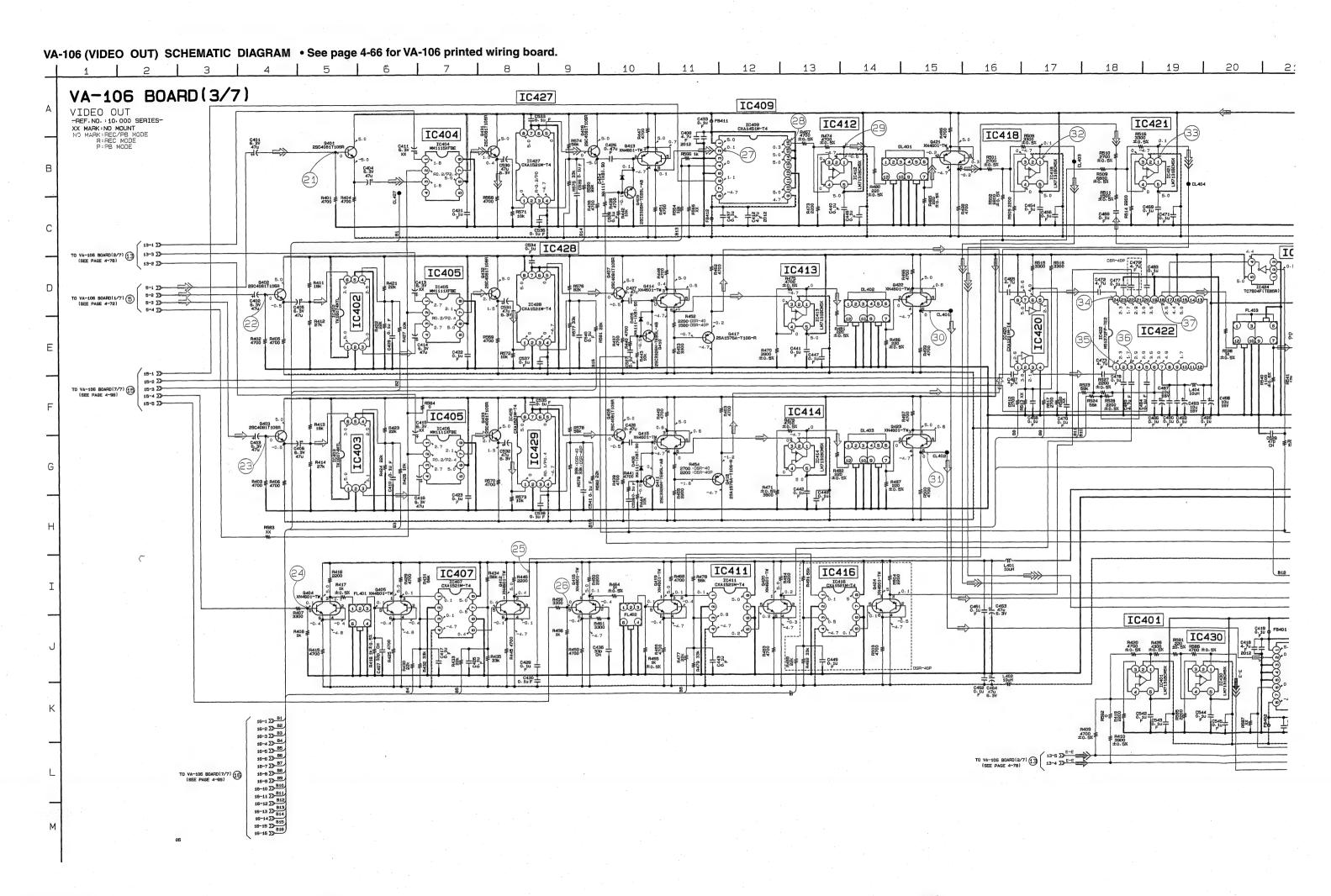


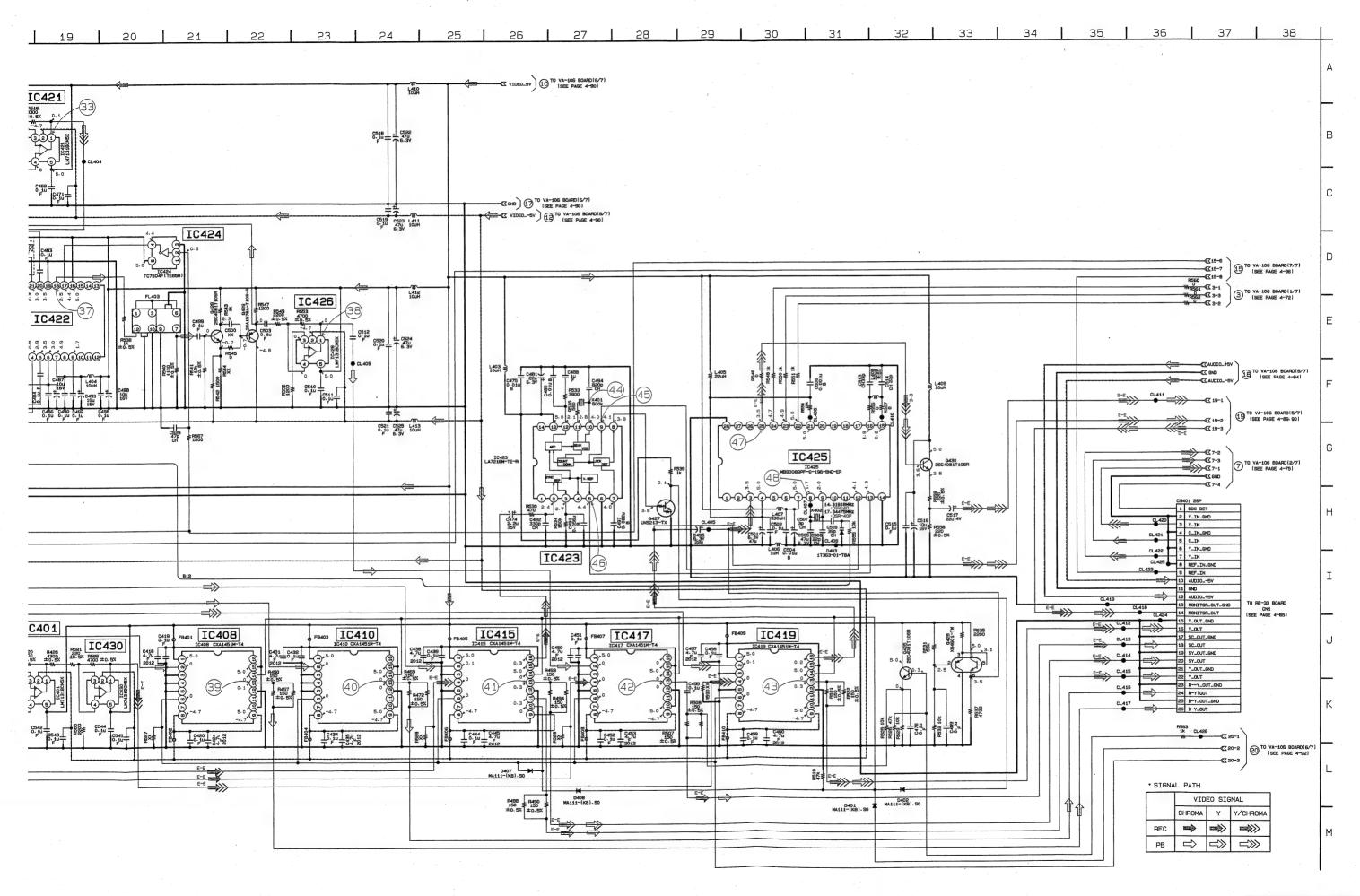


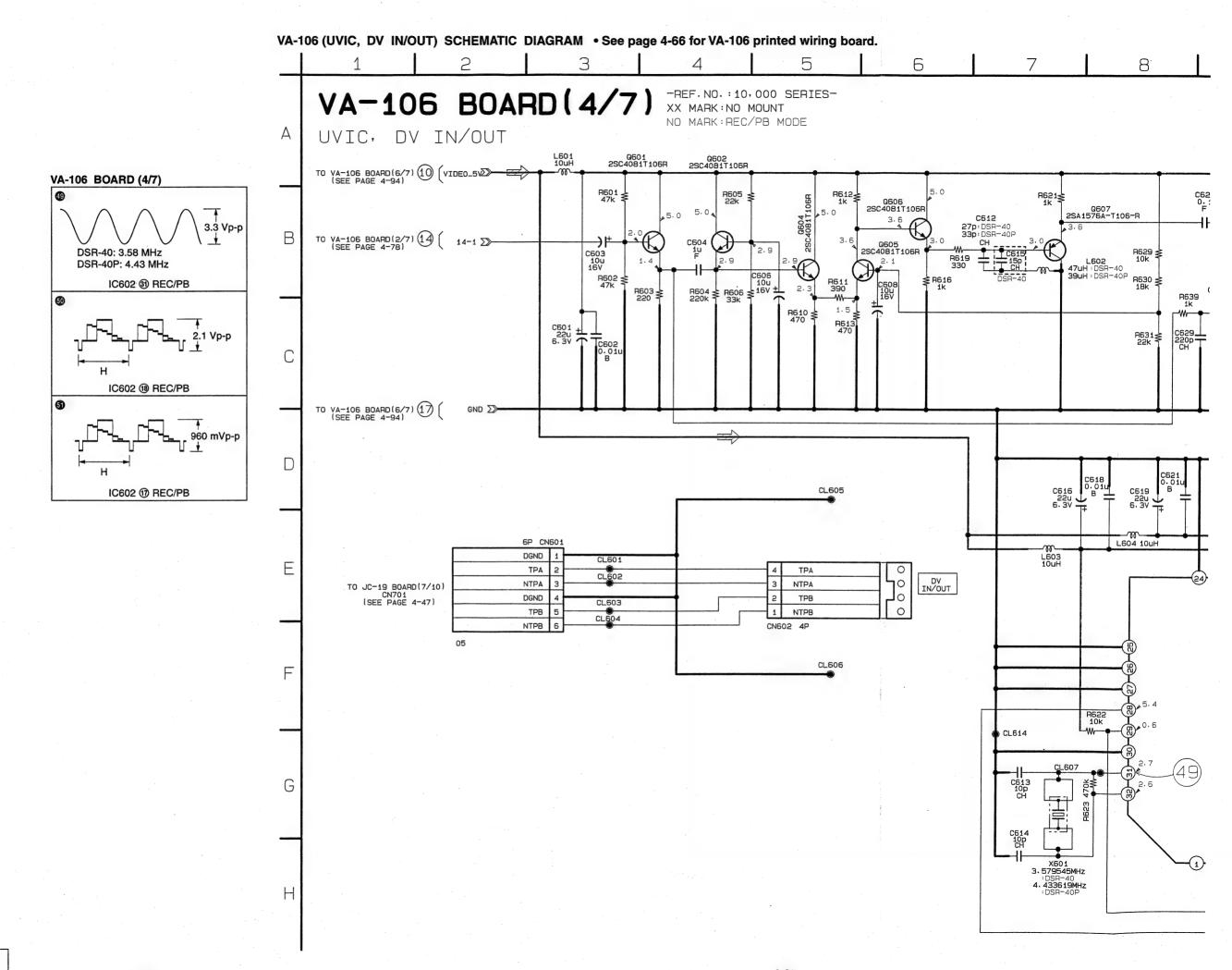










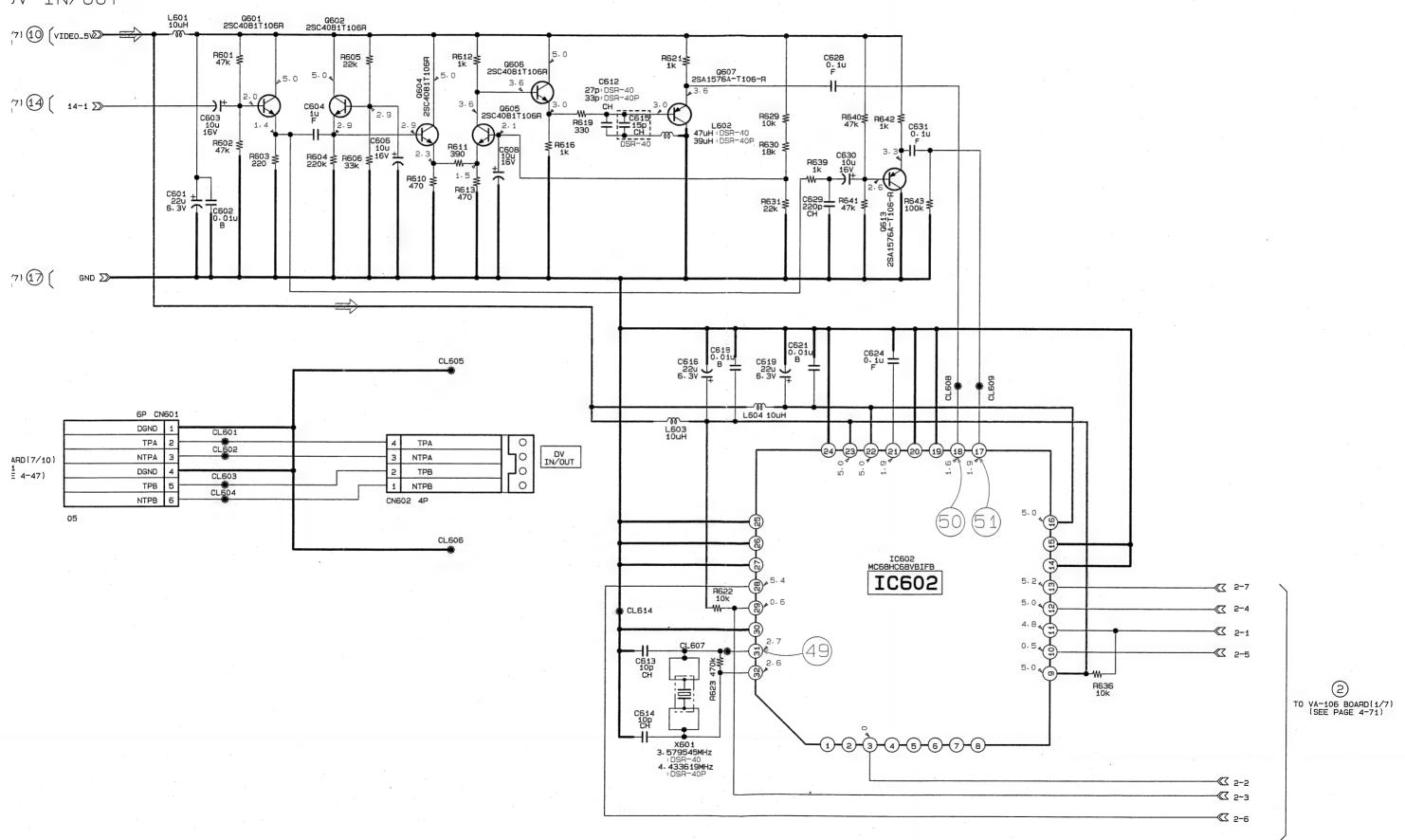


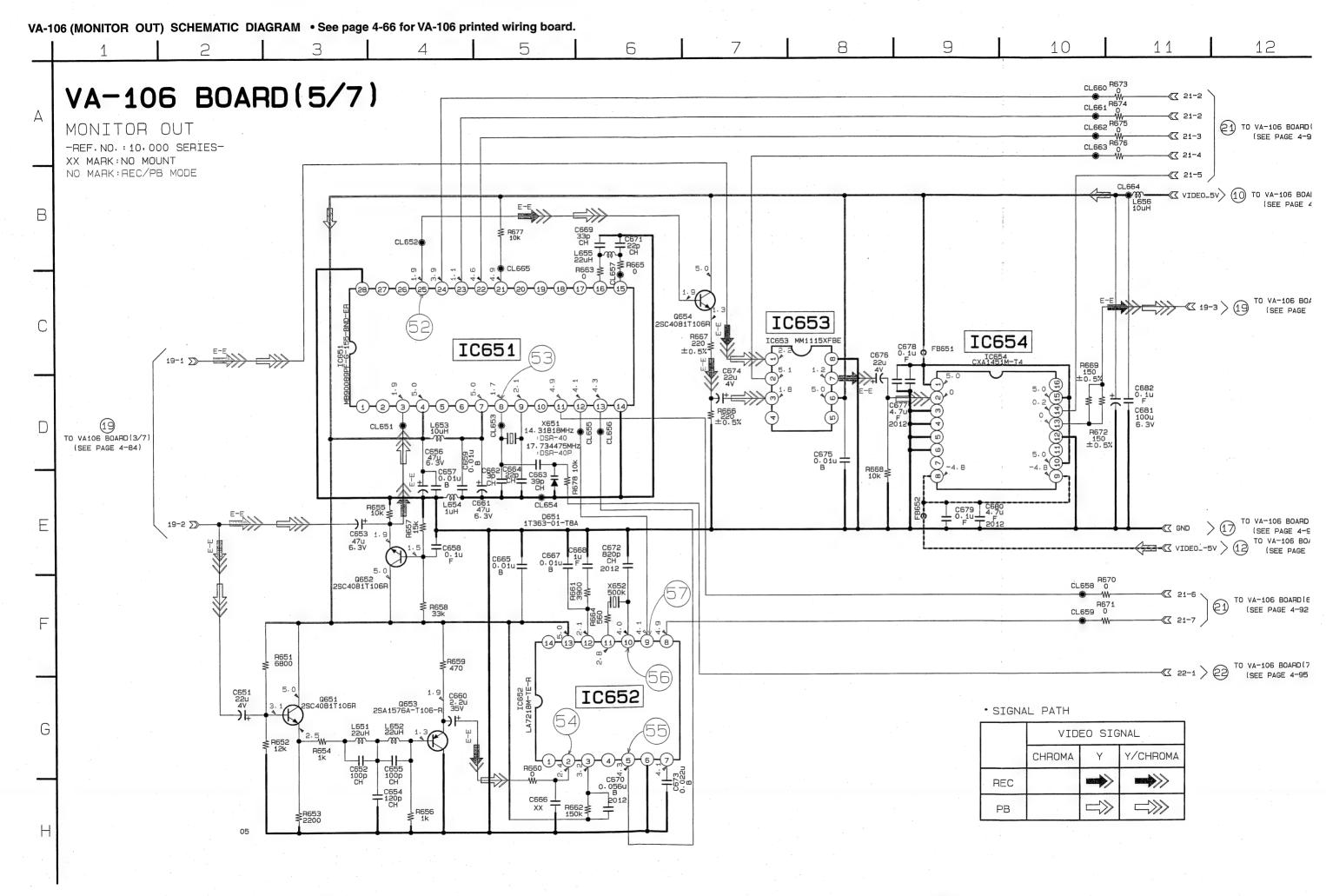
<u>2 3 4 5 6 7 8 9 10 11 12 13</u>

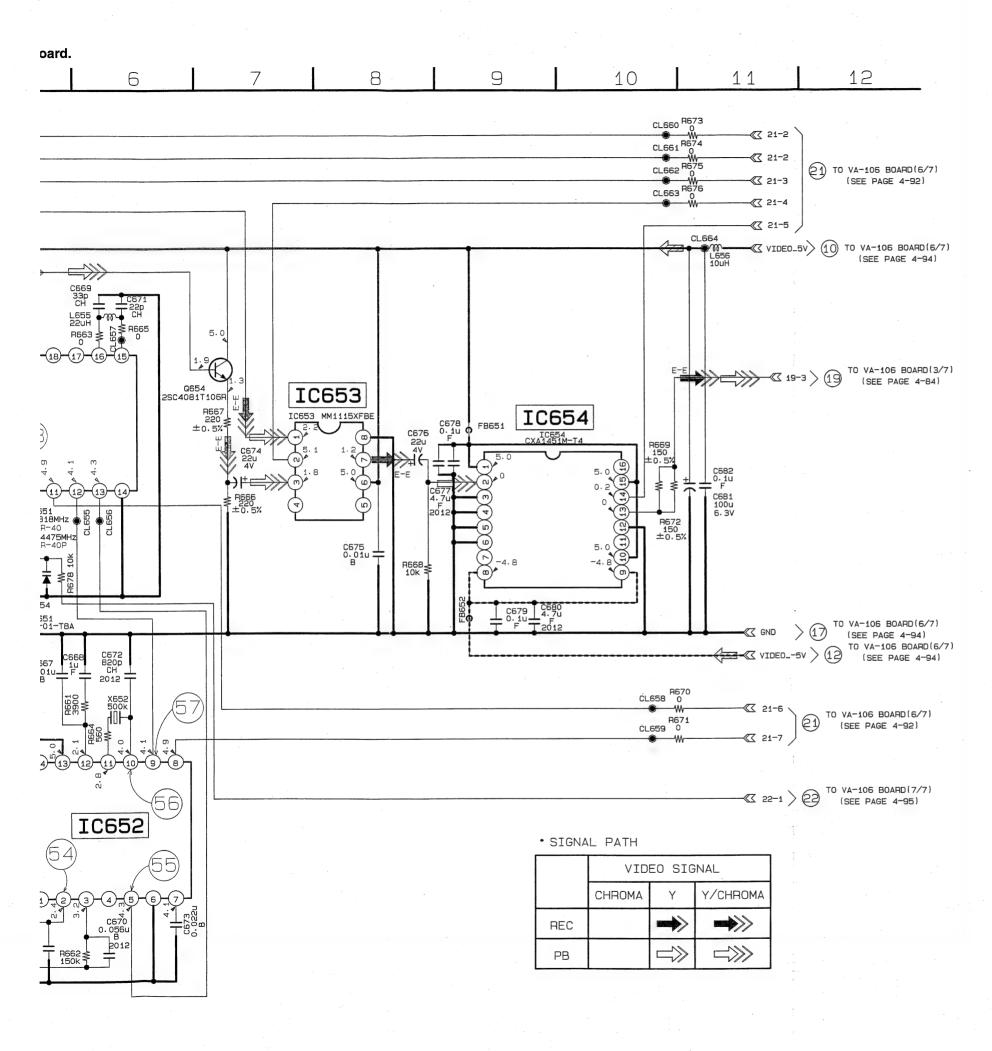
# 06 BOARD (4/7)

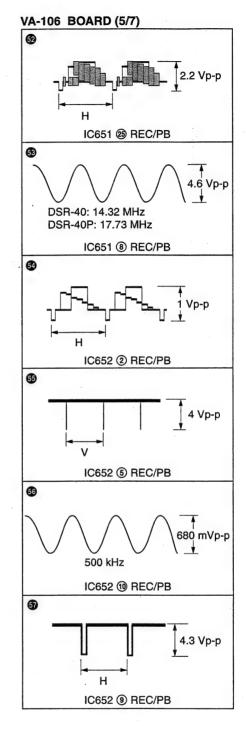
-REF.NO.:10,000 SERIES-XX MARK:NO MOUNT NO MARK:REC/PB MODE

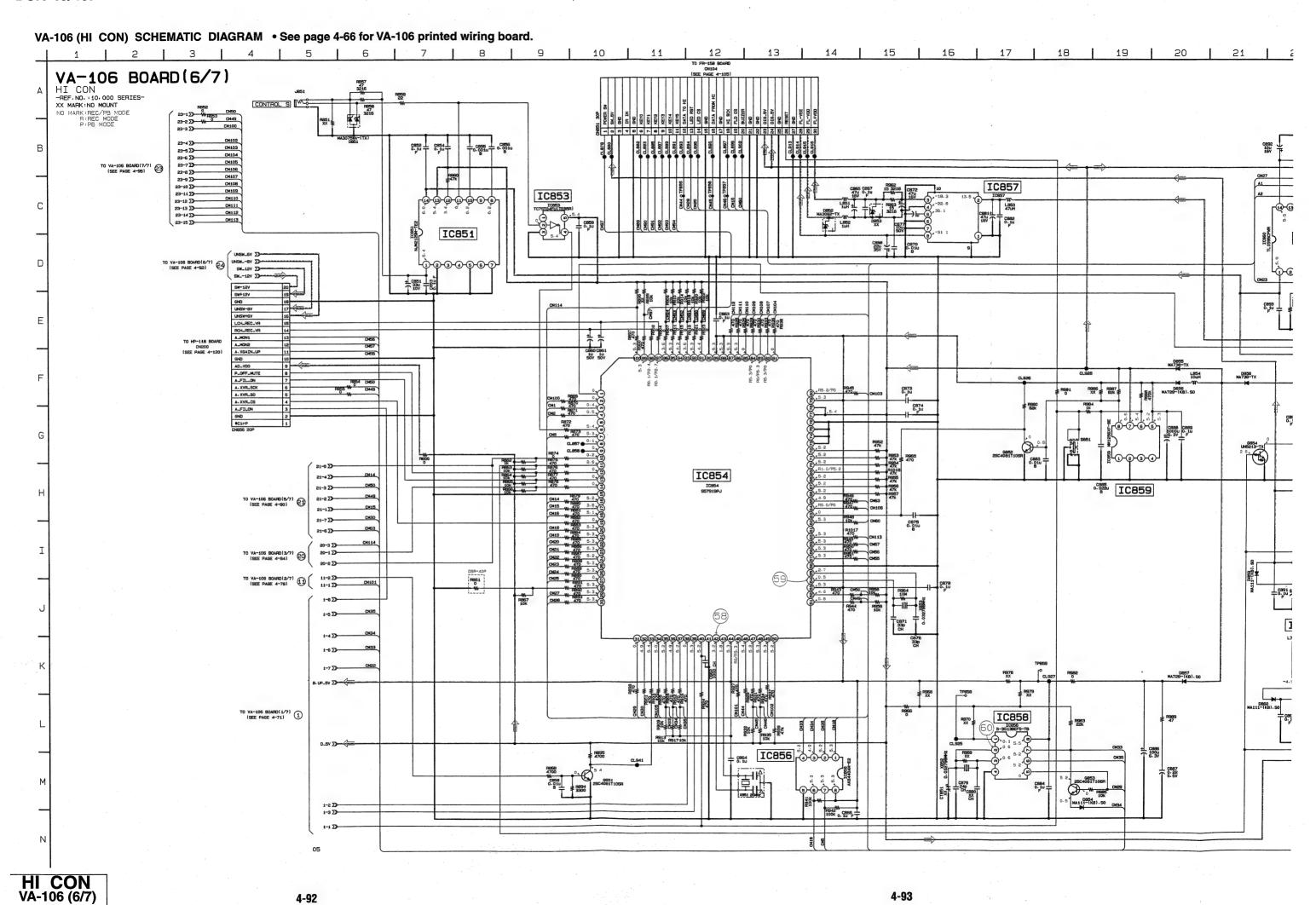
)V IN/OUT

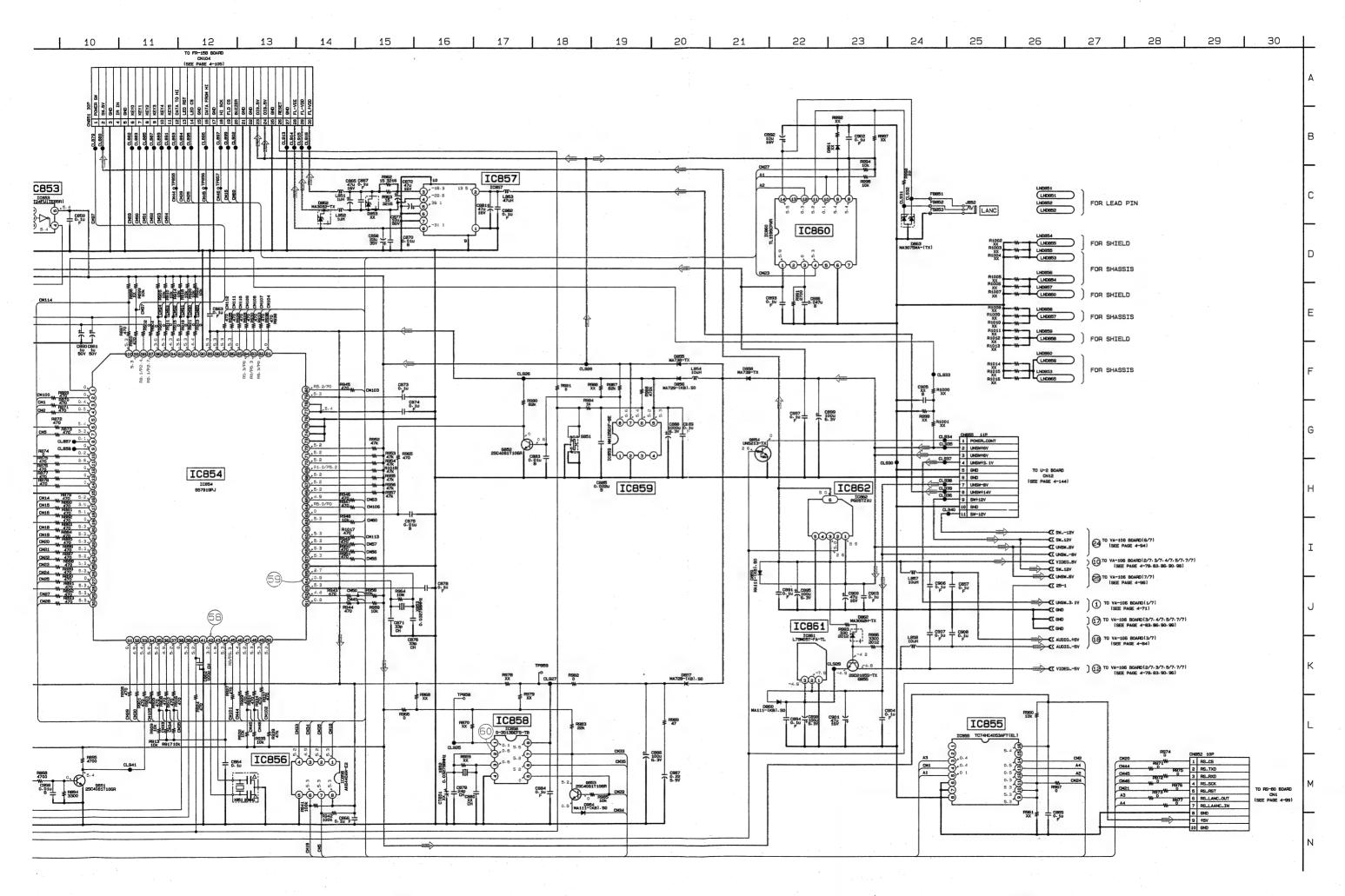


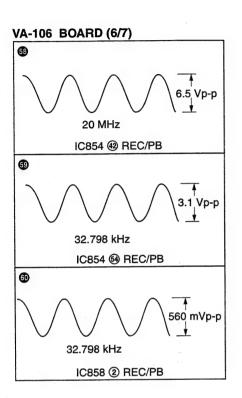


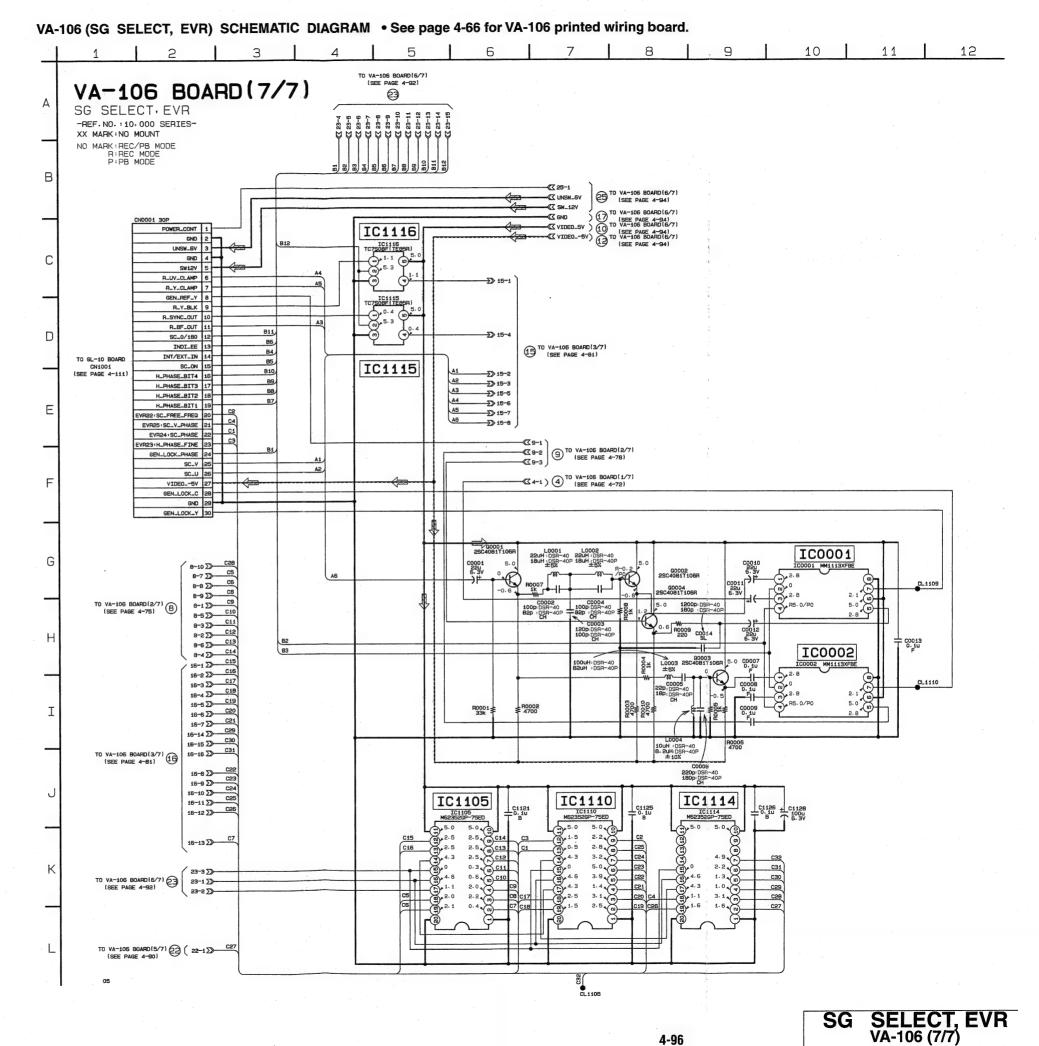








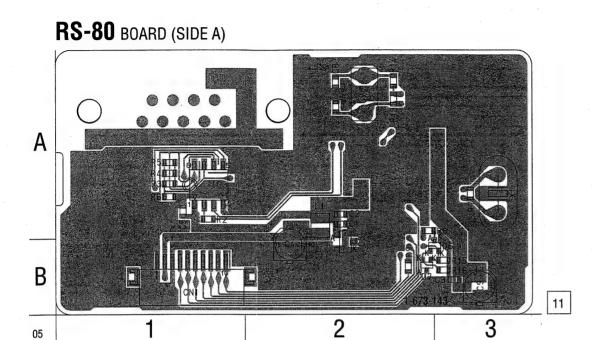


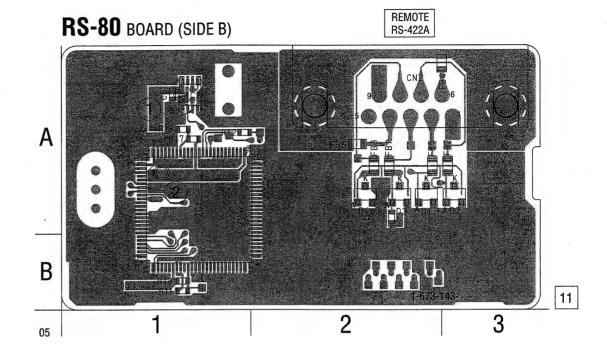


### RS-80 (RS-422A IF) PRINTED WIRING BOARD

- Ref. No.: RS-80 board; 3,000 series -

- For Printed Wiring Board.
   There are few cases that the part isn't mounted in this model is printed on this diagram.



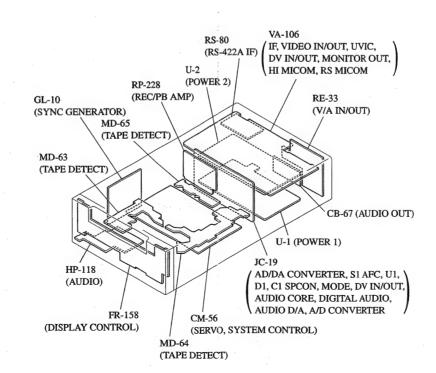


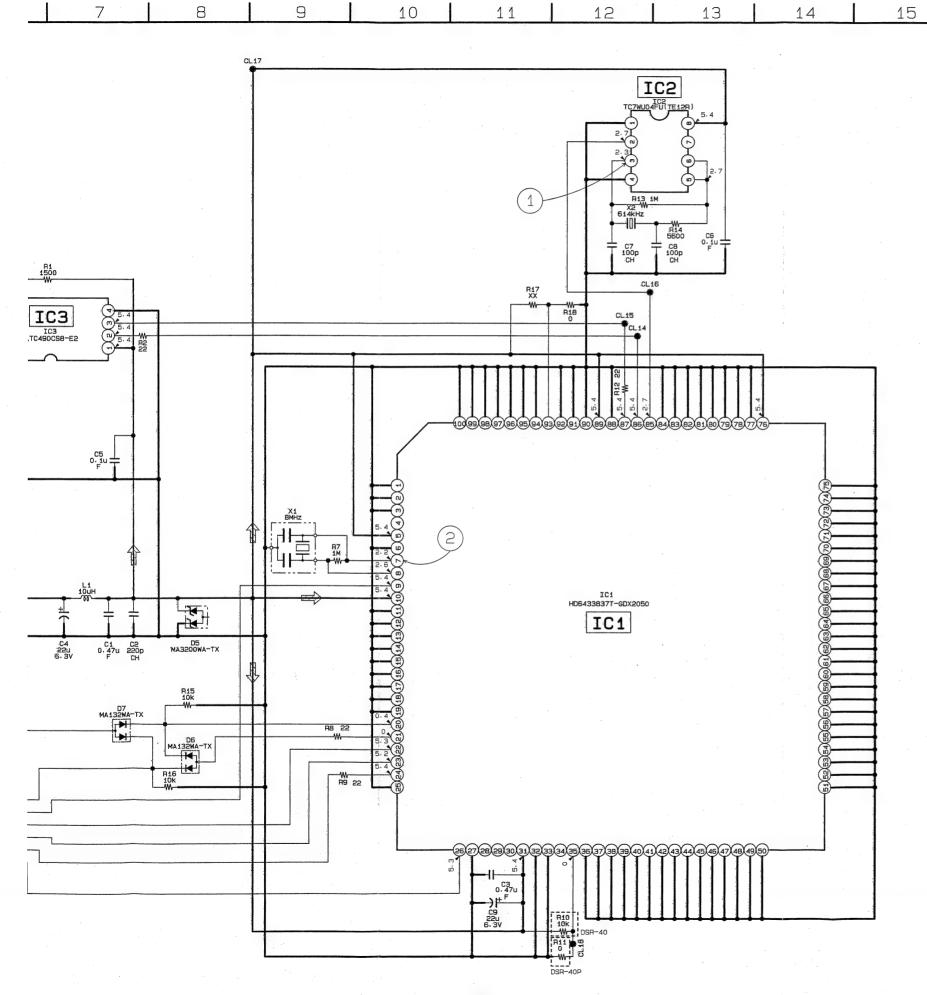
#### RS-80 BOARD (SIDE A)

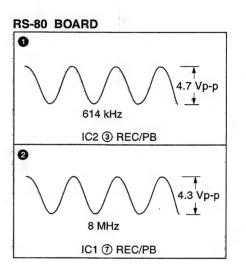
IC3

RS-80 BOARD (SIDE B)

D 1 D 2 D 3 D 4







- For Printed Wiring Board.
- There are few cases that the part isn't mounted in this model is printed on this diagram.

D101 D102 D108 D109 D110 D111 D112 D113 D114 D117

Q101

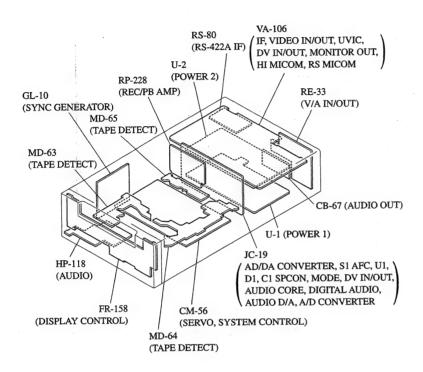
D115 D116

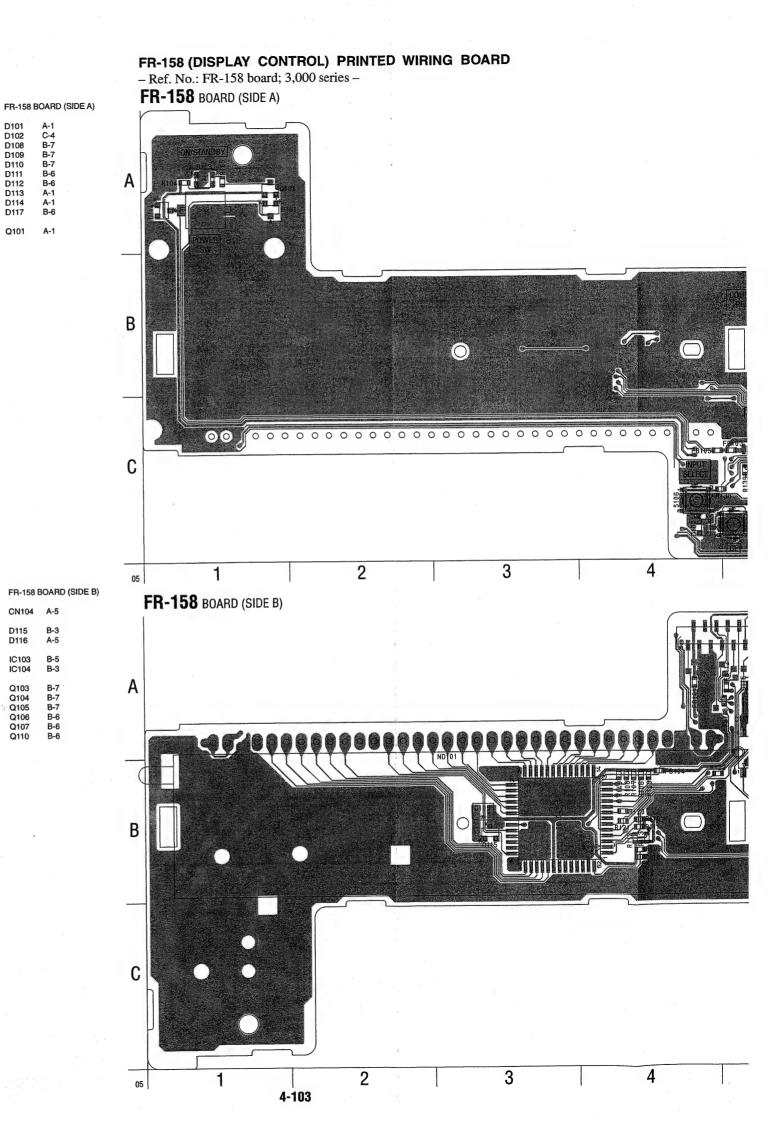
IC103 IC104

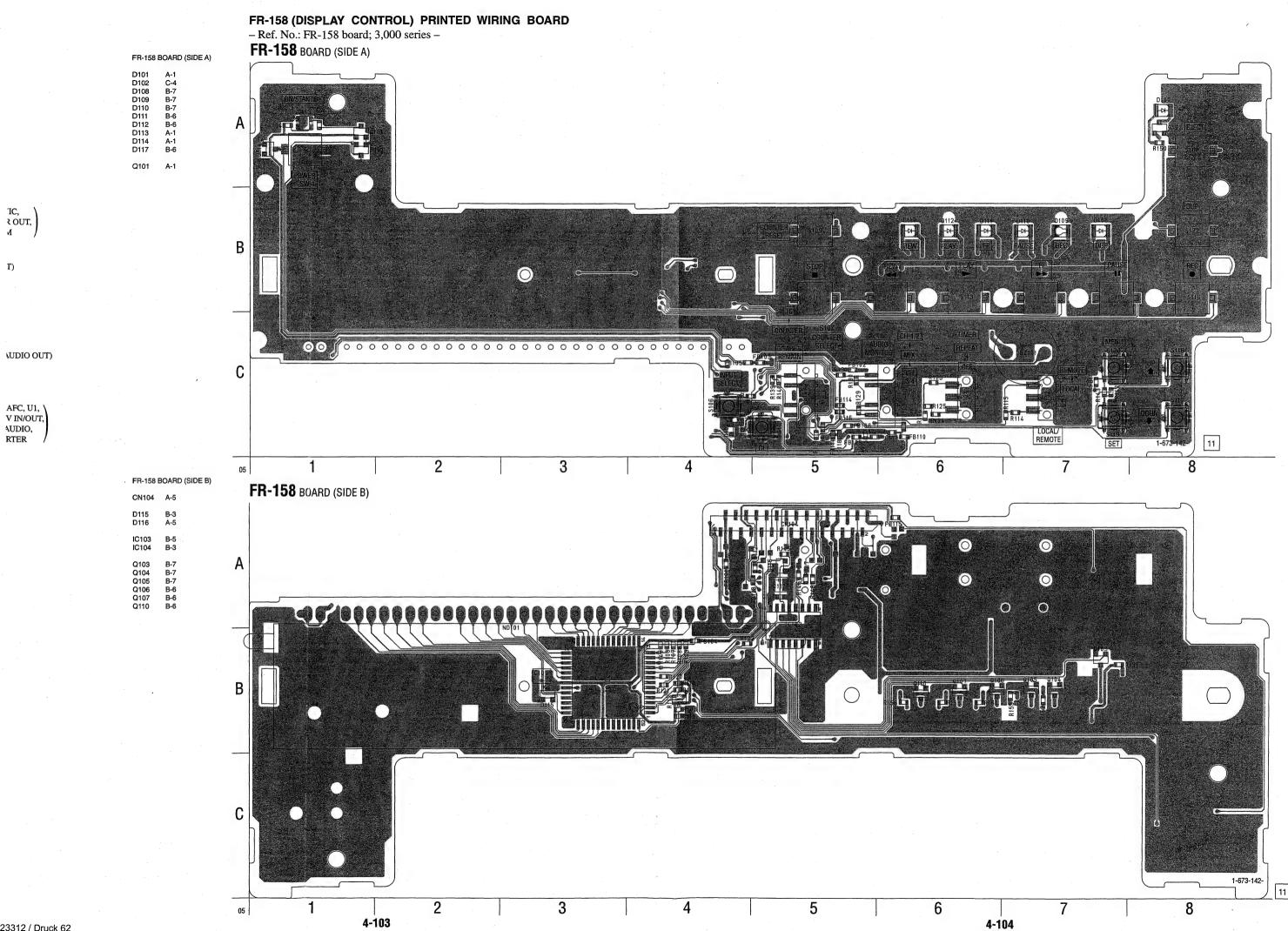
Q103 Q104 Q105 Q106 Q107 Q110

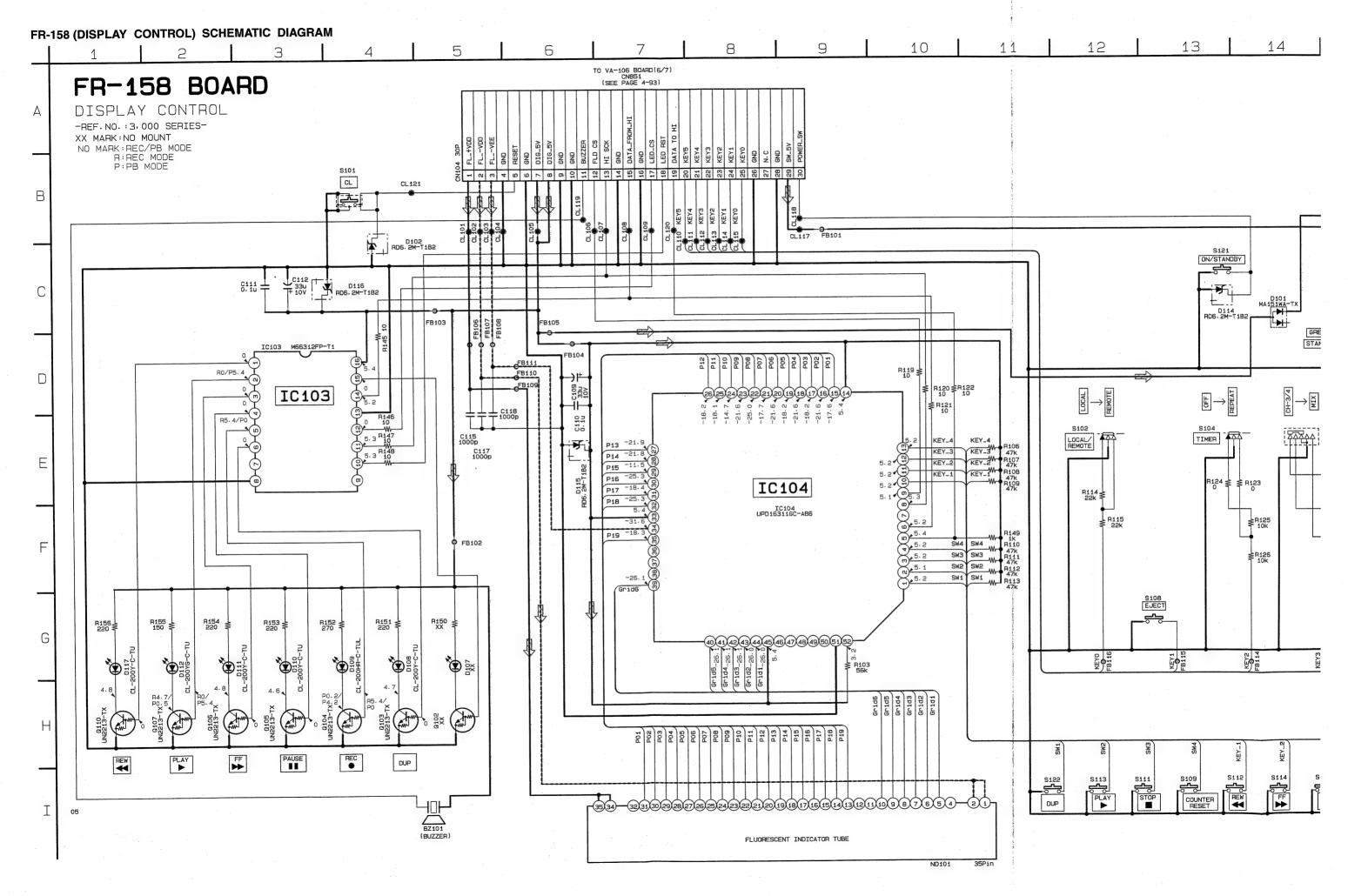
Chip transistor

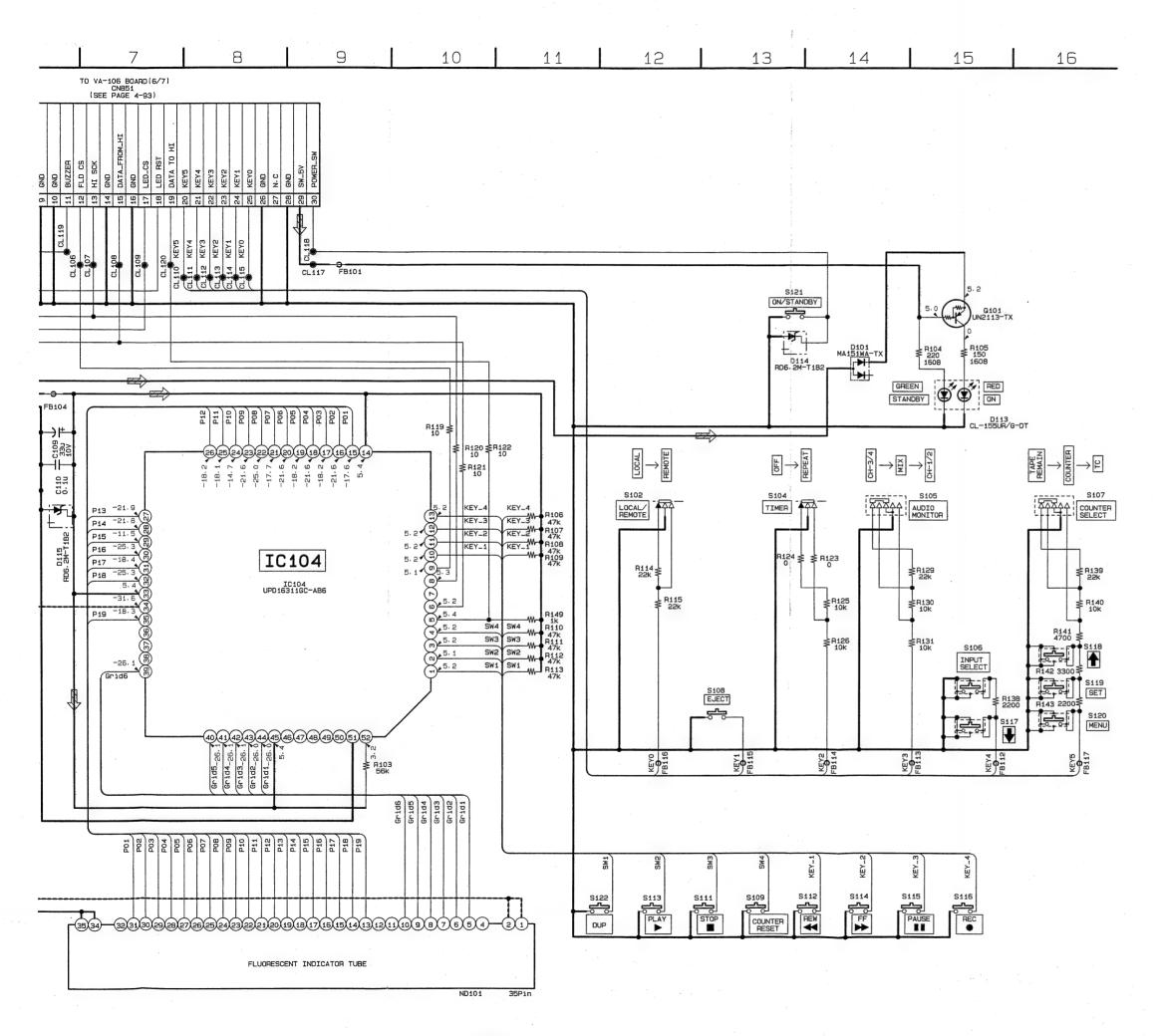












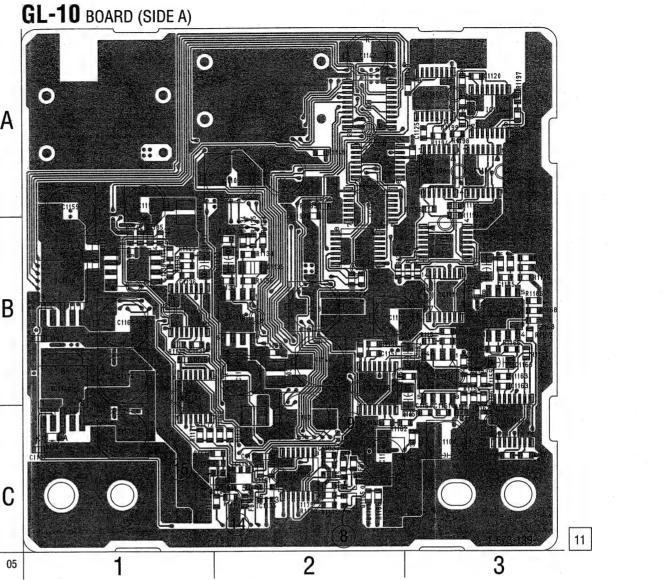
- For Printed Wiring Board.
  GL-10 board is 4-layer print board. However, the patterns of layers 2 to 3 have not been included in the diagram.
- There are few cases that the part isn't mounted in this model is printed on this diagram.
- Chip transistor

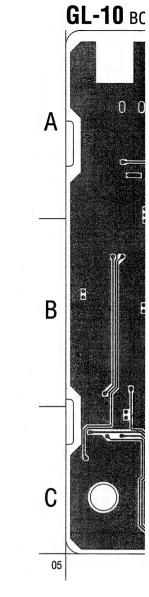
<u> </u>	654
	123
BE	123

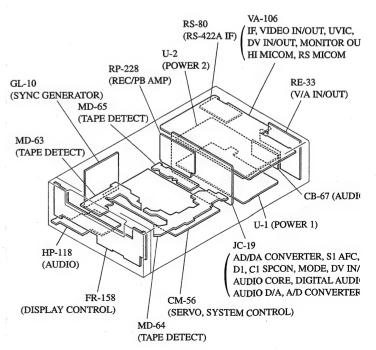
# **GL-10 (SYNC GENERATOR) PRINTED WIRING BOARD**– Ref. No.: GL-10 board; 20,000 series –

D1102	C-1
IC1104	A-3
IC1105	A-3
IC1107	A-3
IC1108	A-3
IC1111	B-3
IC1112	B-3
IC1116	B-1
IC1118	B-2
IC1119	B-1
IC1121	A-2
IC1128	B-2
IC1132	B-3
IC1133	C-3
IC1134	B-1
IC1135	C-2
IC1136	B-1
IC1137	B-3
IC1138	C-2
IC1139	C-2
IC1140	B-1
IC1142	A-2
IC1143	A-2
IC1144	B-2
Q1104	C-2
Q1105	C-2
Q1106	C-2

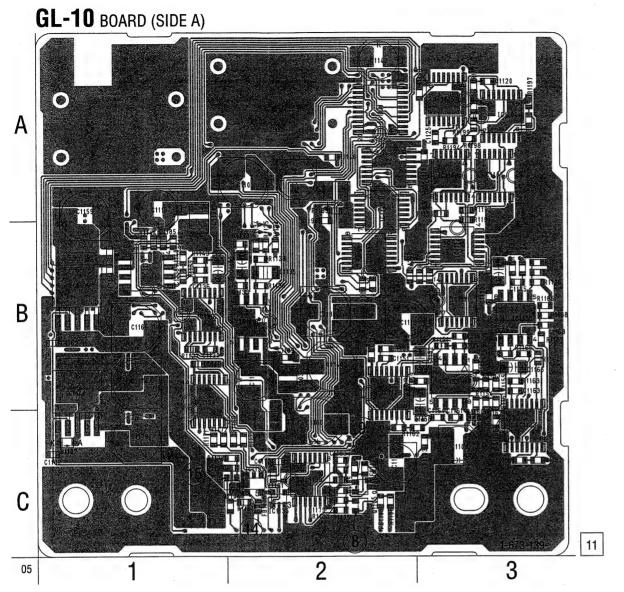
GL-10 BOARD (SIDE A)

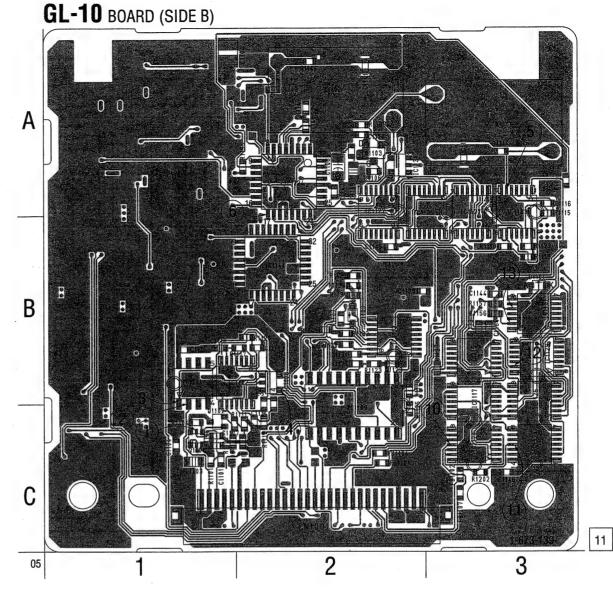


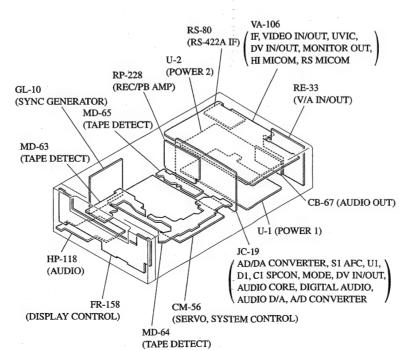




- Ref. No.: GL-10 board; 20,000 series -





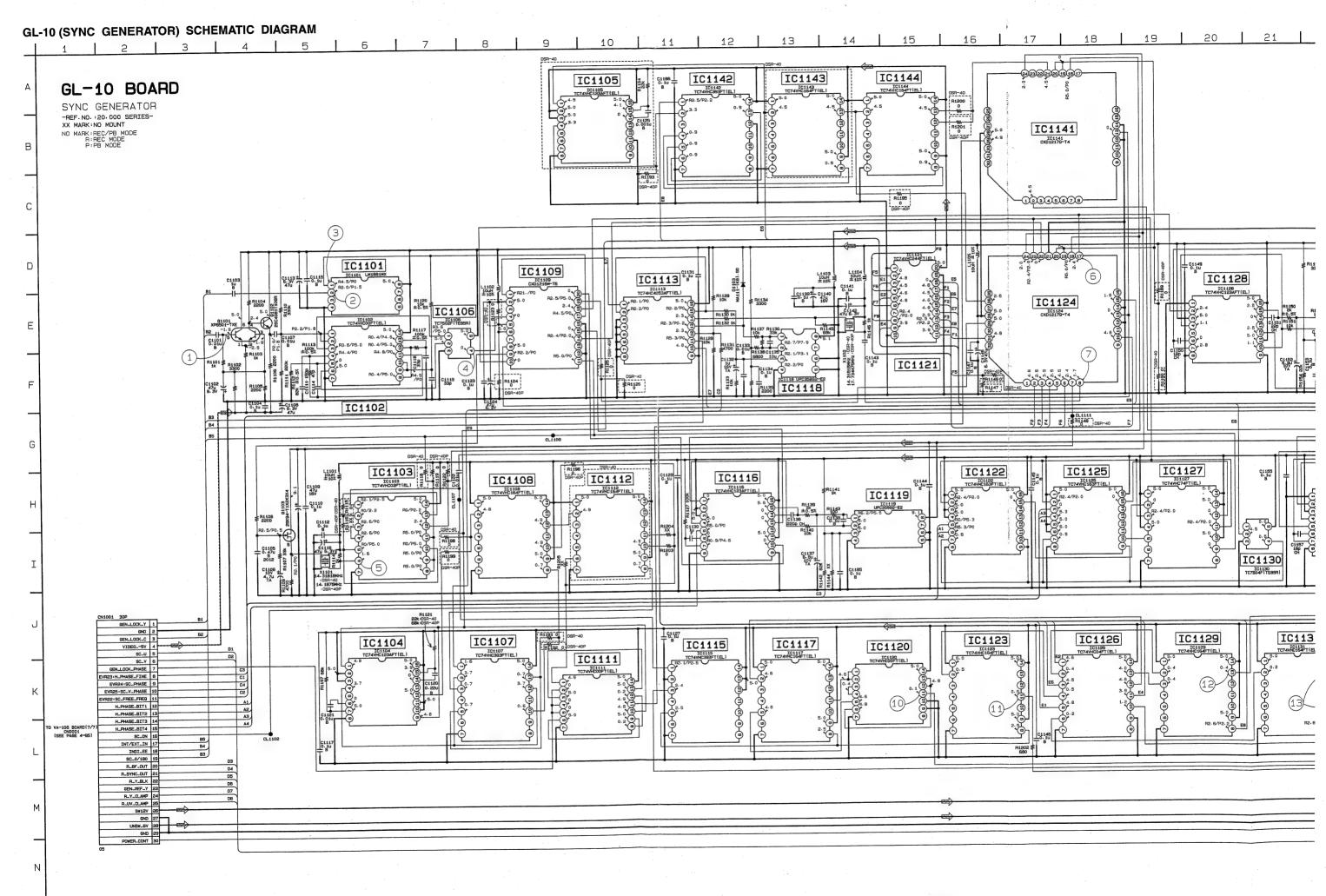


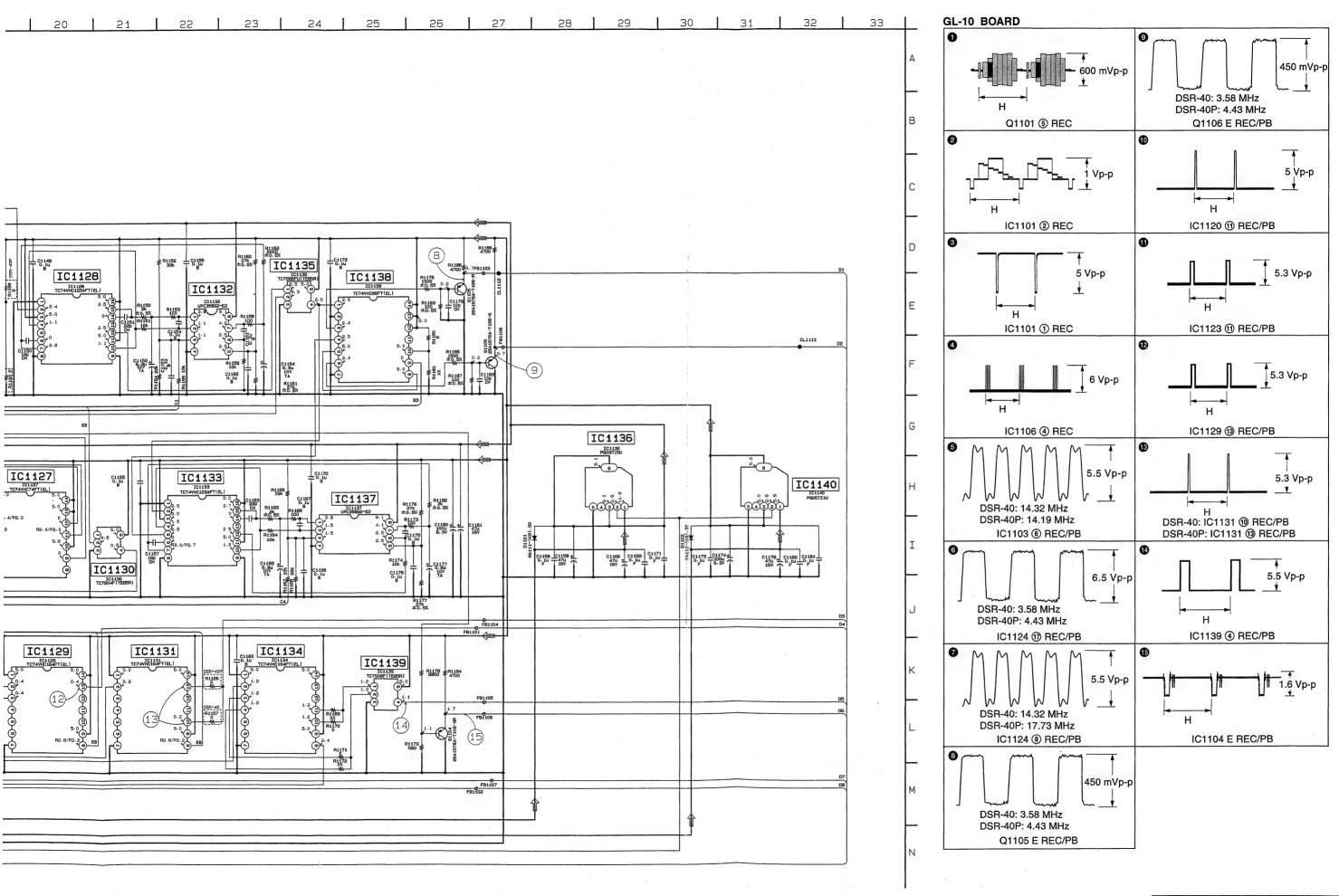
GL-10 BOARD (SIDE B)

CN1001 C-2

D1101 B-3
D1103 B-2
IC1101 B-1
IC1102 B-2
IC1103 A-3
IC1106 B-2
IC1113 B-2
IC1113 B-2
IC1115 B-3
IC1112 C-3
IC1122 A-2
IC1123 C-3
IC1124 A-2
IC1125 A-2
IC1126 B-3
IC1127 A-3
IC1127 A-3
IC1127 B-3
IC1128 B-3
IC1129 B-3
IC1121 B-3
IC1130 A-2
IC1131 B-3
IC1141 B-2

Q1101 C-1 Q1102 C-1 Q1103 A-2





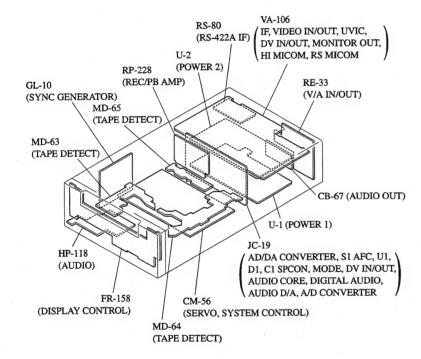
### HP-118 (AUDIO) PRINTED WIRING BOARD

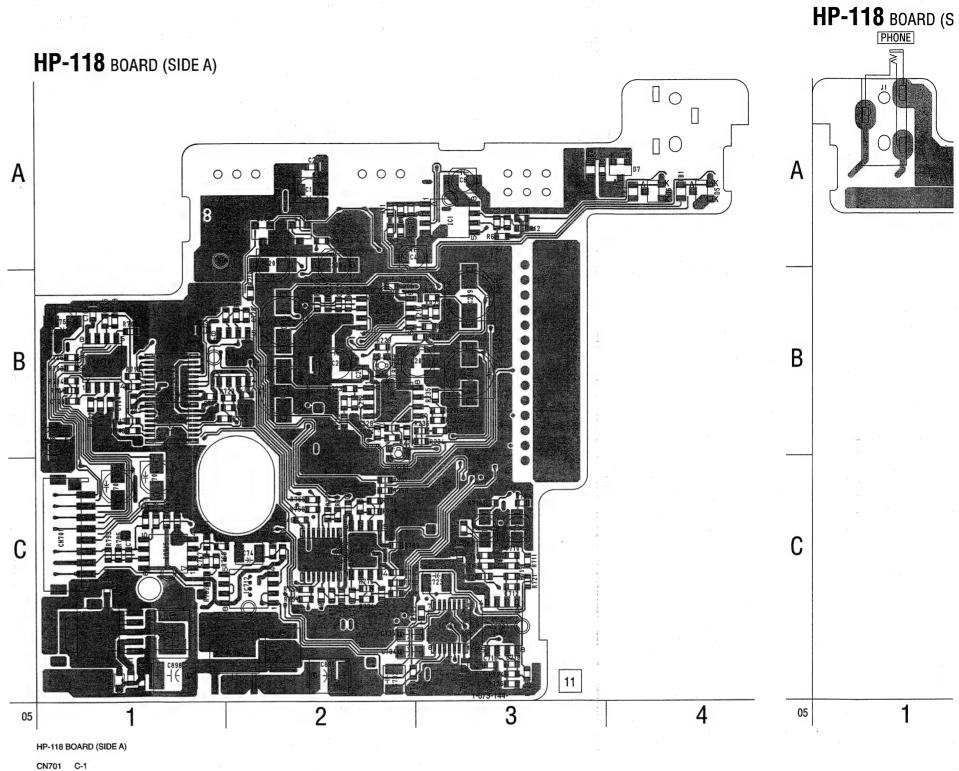
- Ref. No.: HP-118 board; 4,000 series -

- For Printed Wiring Board.
  HP-118 board is 4-layer print board. However, the patterns of layers 2 and 3 have not been included in the diagram.
  There are few cases that the part isn't mounted in this model is
- printed on this diagram.

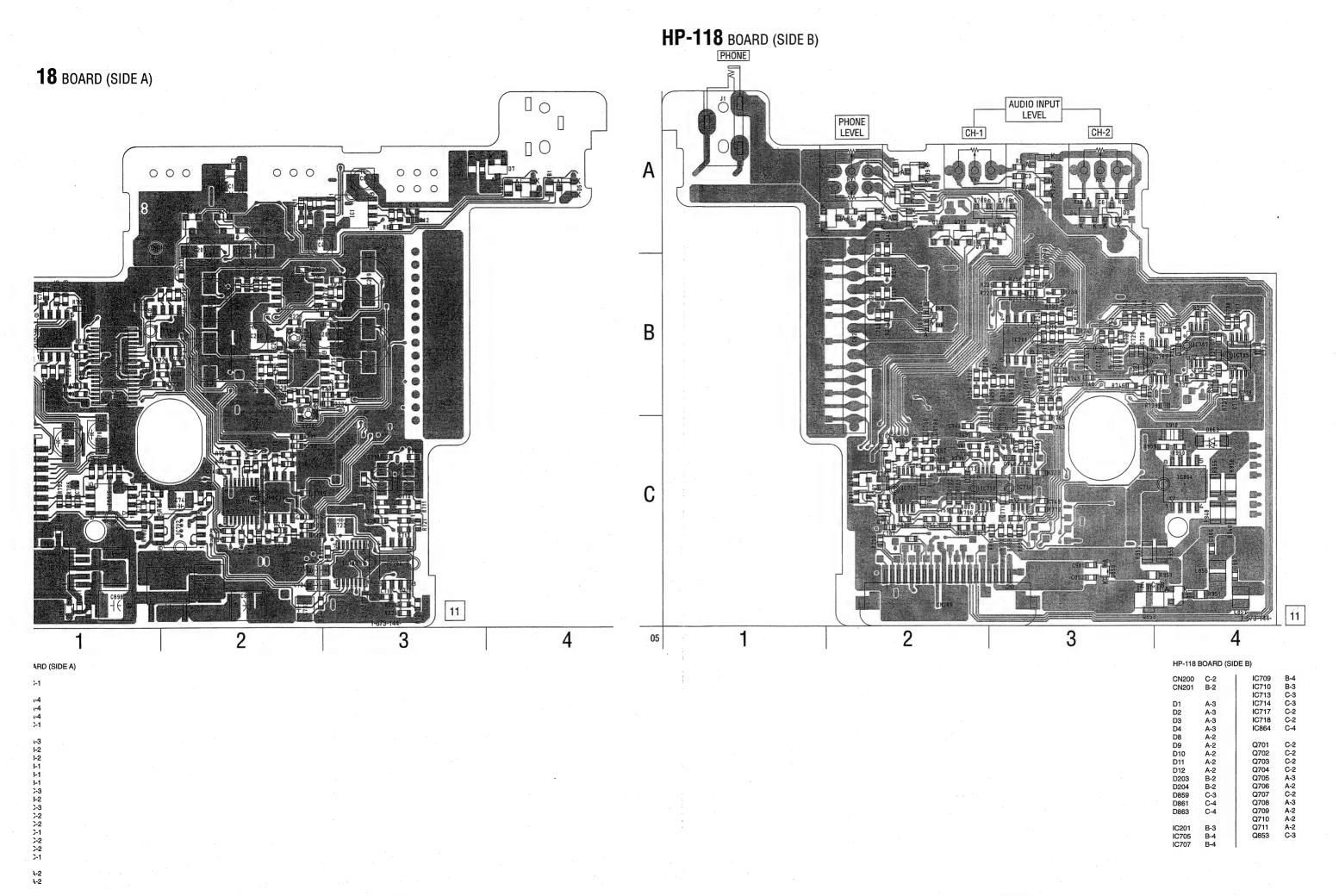
   Chip transistor

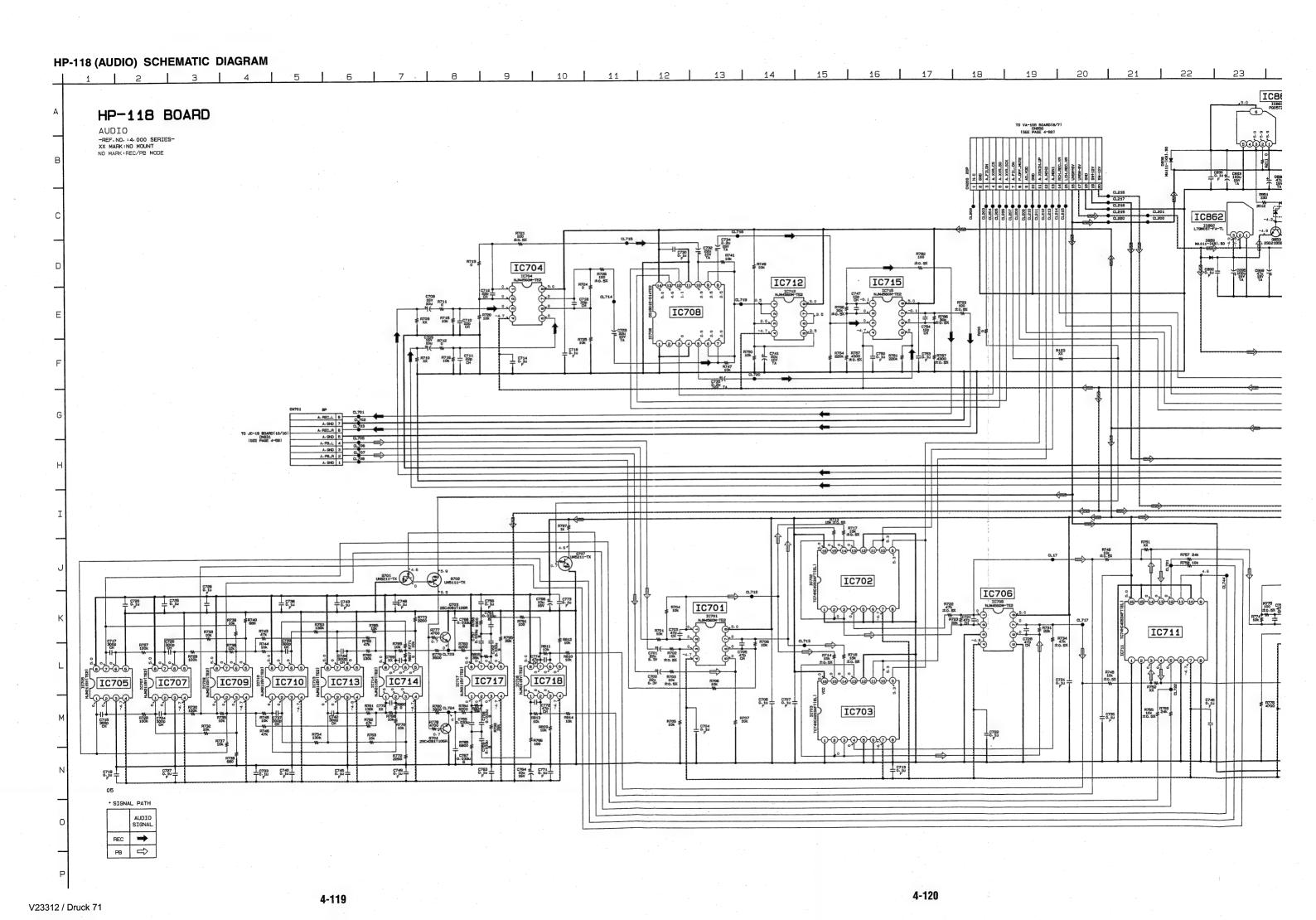


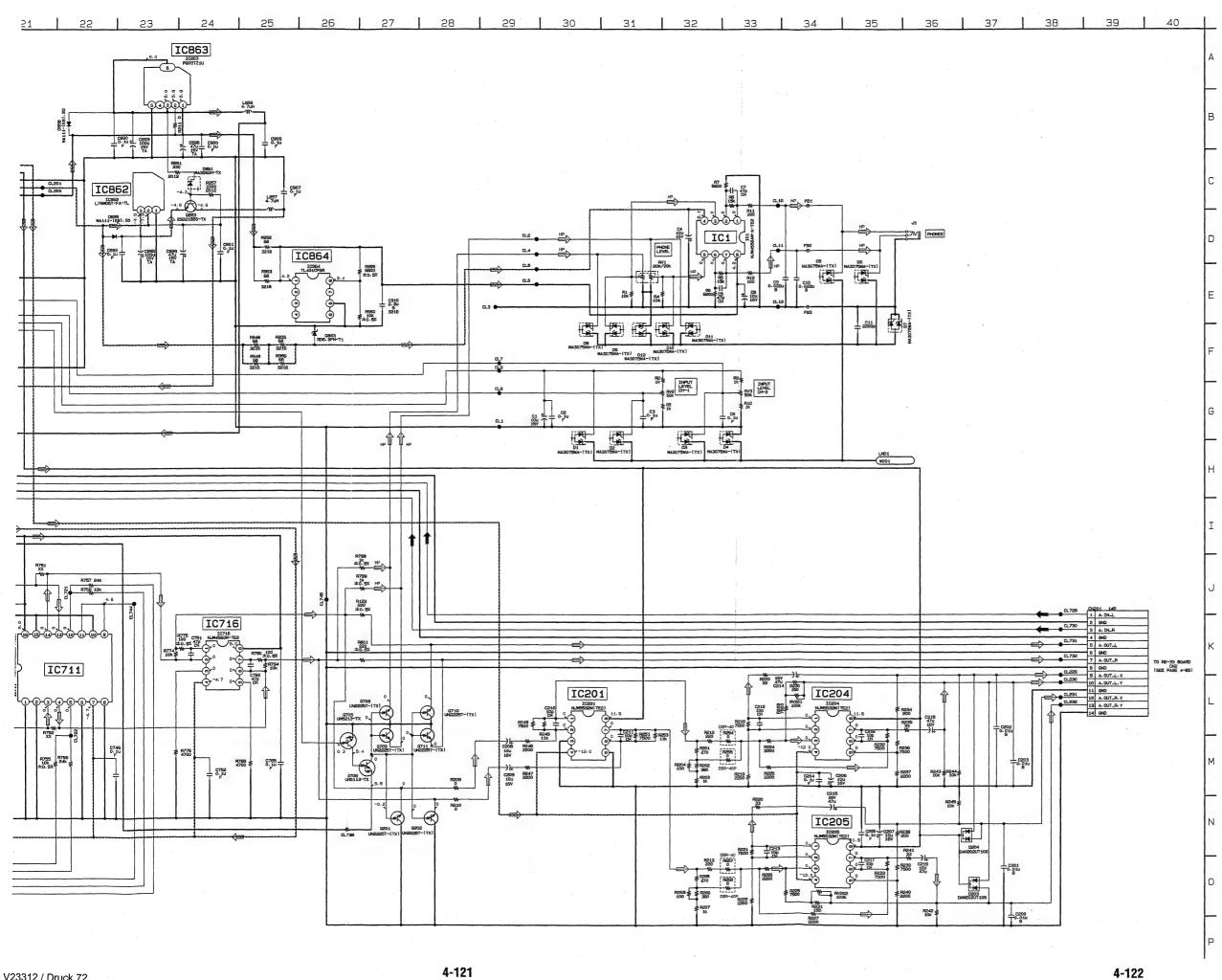




A-4 A-4 A-4 C-1 IC1 IC204 IC205 IC701 IC702 IC703 IC704 IC706 IC708 IC711 IC712 IC715 IC716 IC862 IC863 A-3 B-2 B-1 B-1 B-1 C-3 B-2 C-3 C-2 C-1 C-2 C-1 Q201 Q202



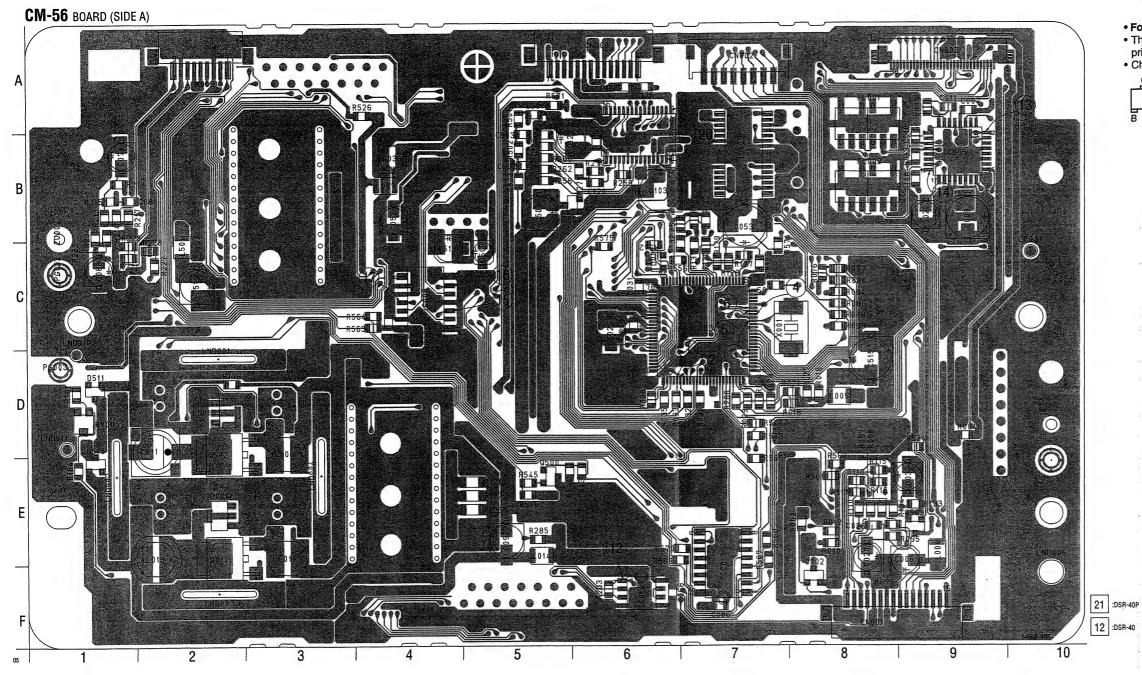




### **DSR-40/40P**

### CM-56 (SERVO, SYSTEM CONTROL) PRINTED WIRING BOARD

- Ref. No.: CM-56 board; 2,000 series -



• For Printed Wiring Board.

• There are few cases that the part isn't mounted in this model is printed on this diagram.



VA-106 RS-80 (IF, VIDEO IN/OUT, UVIC DV IN/OUT, MONITOR ( HI MICOM, RS MICOM (RS-422A IF) (POWER 2) RP-228 RE-33 GL-10 (V/A IN/OUT) (SYNC GENERATOR) (TAPE DETECT MD-63 (TAPE DETECT U-1 (POWER 1) HP-118 (AUDIO) AD/DA CONVERTER, S1 AI D1, C1 SPCON, MODE, DV AUDIO CORE, DIGITAL AU AUDIO D/A, A/D CONVERT FR-158 (DISPLAY CONTROL) (SERVO, SYSTEM CONTROL)

(TAPE DETECT)

CM-56 BOARD (SIDE A)

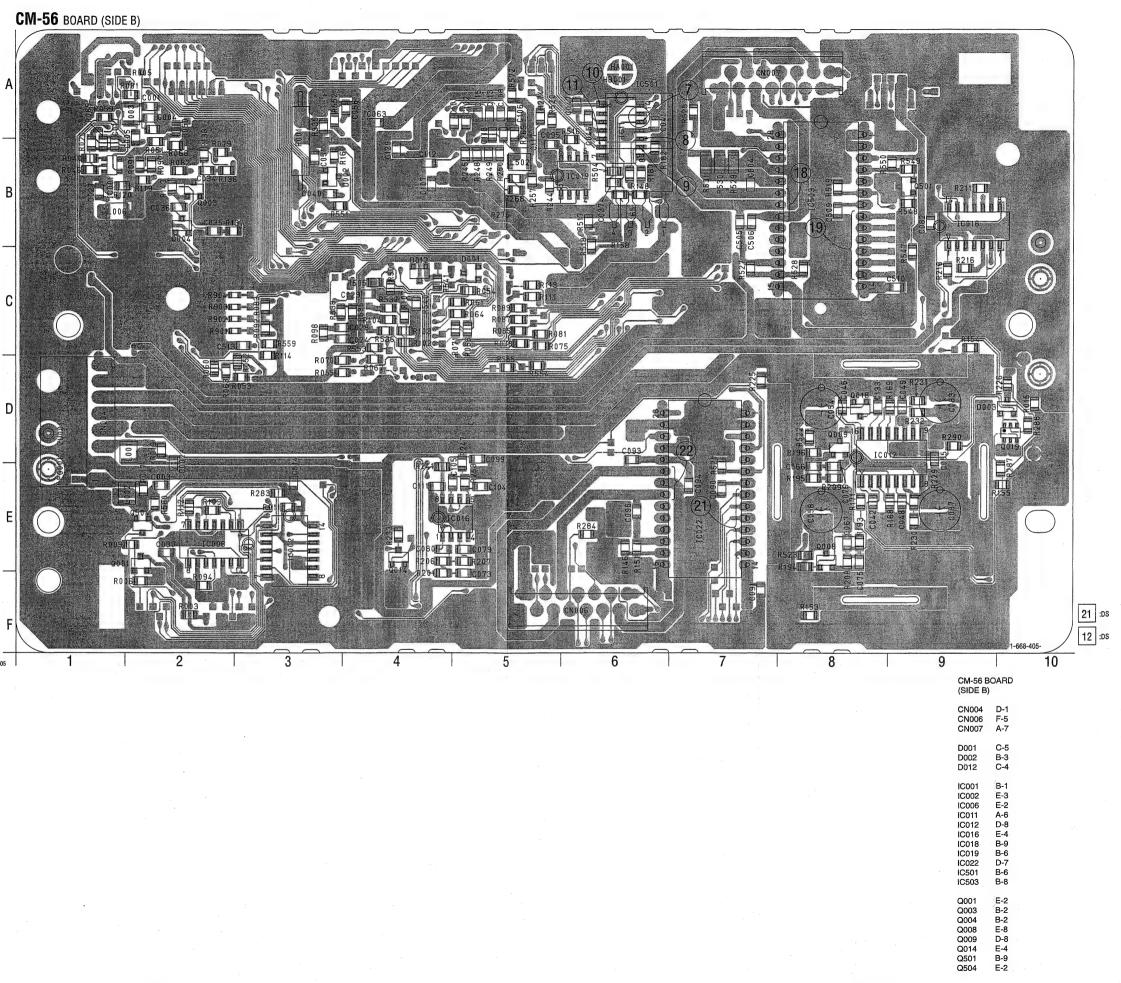
CN001 F-8 CN002 A-7 CN003 A-9 CN005 A-2 CN008 A-6 D004 D011 D501 D502 E-2 C-6 D-2 B-5 IC003 IC005 IC008 IC009 IC014 IC017 IC021 C-7 B-9 C-4 B-7 F-6 F-7 A-6 Q002 Q012 Q500 Q502 Q503 F-8 E-2 E-5 D-2 E-9

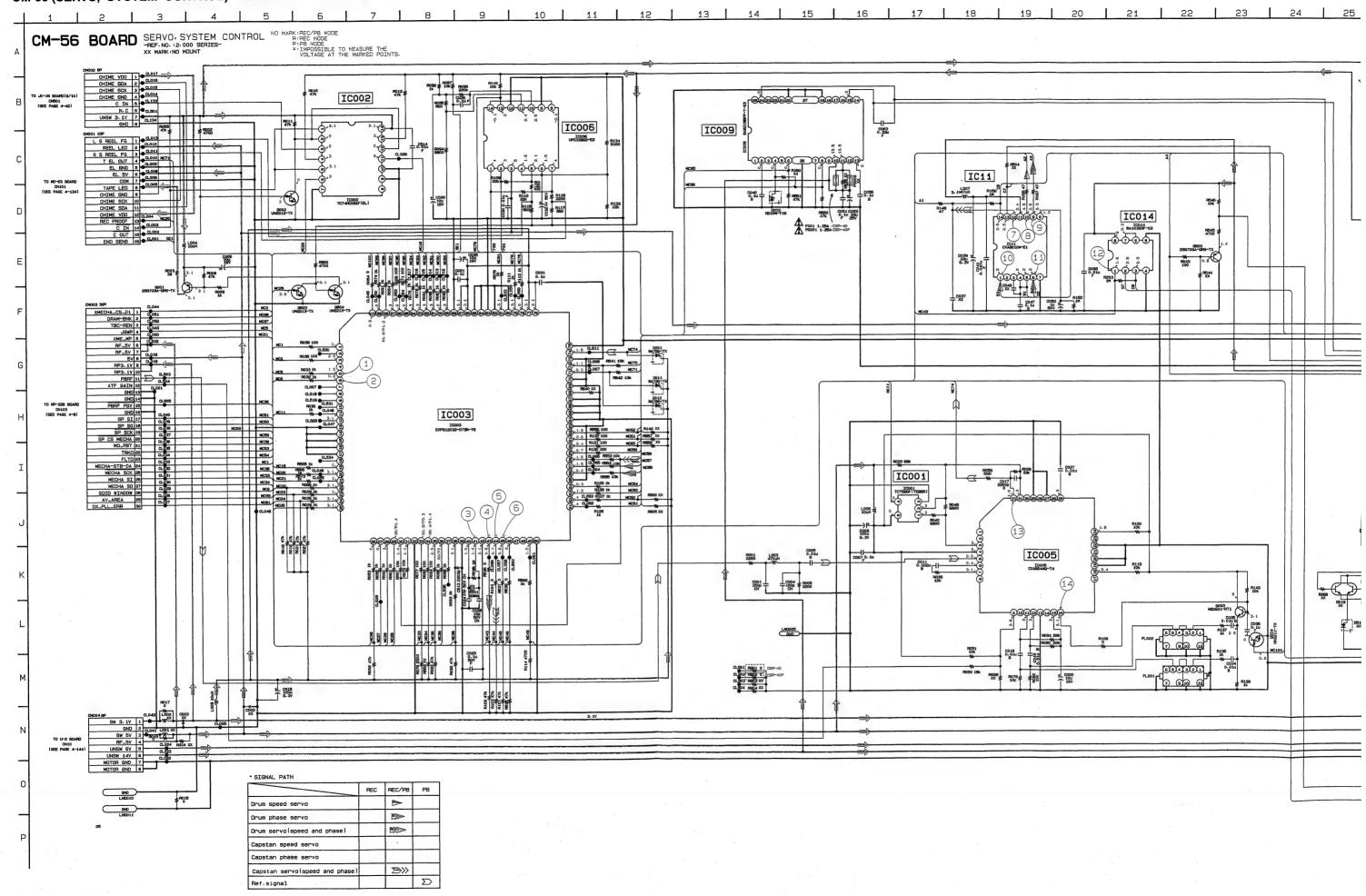
SERVO, SYSTEM CONTROL CM-56 V23312 / Druck 73

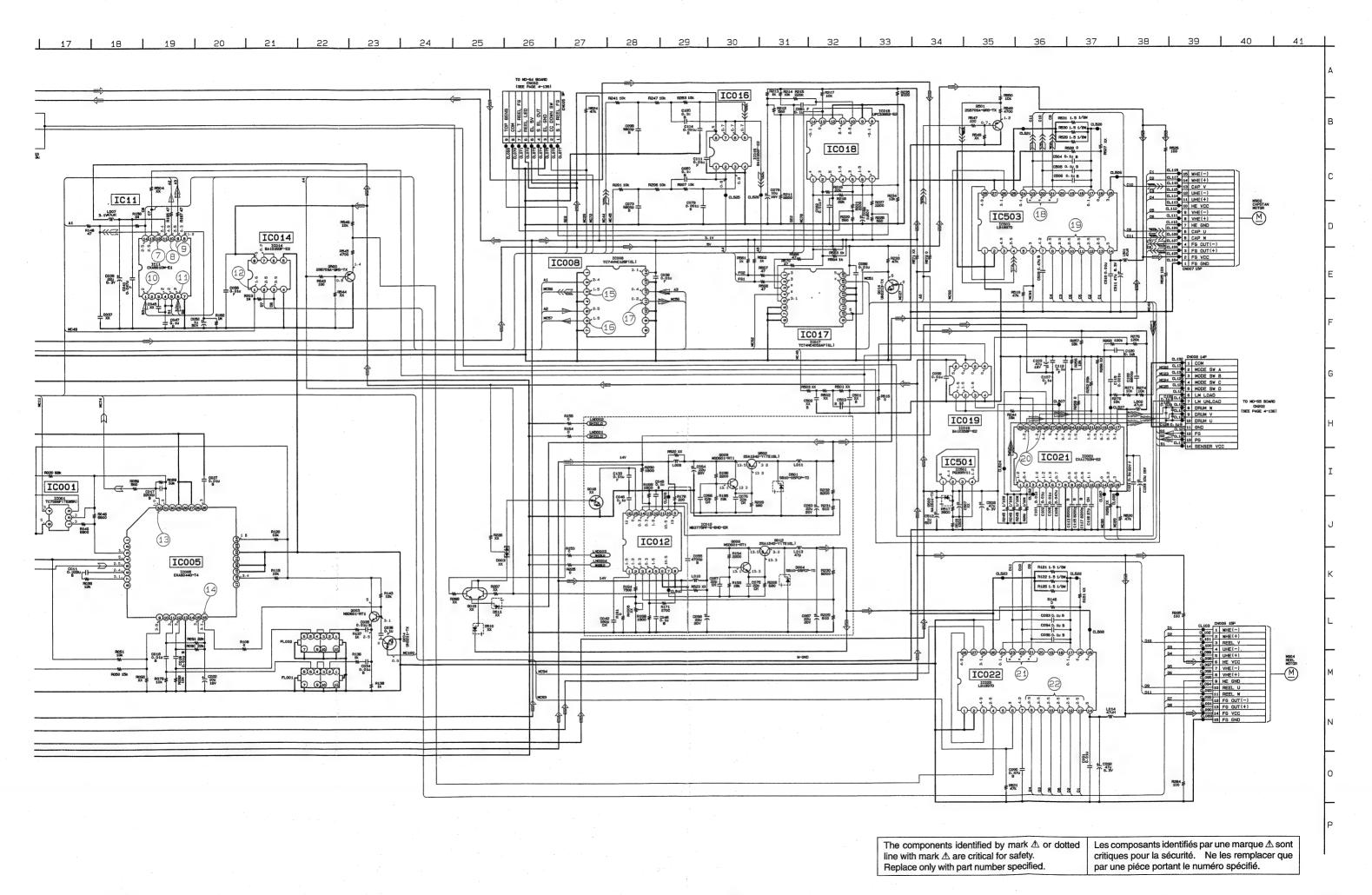
#### Wiring Board.

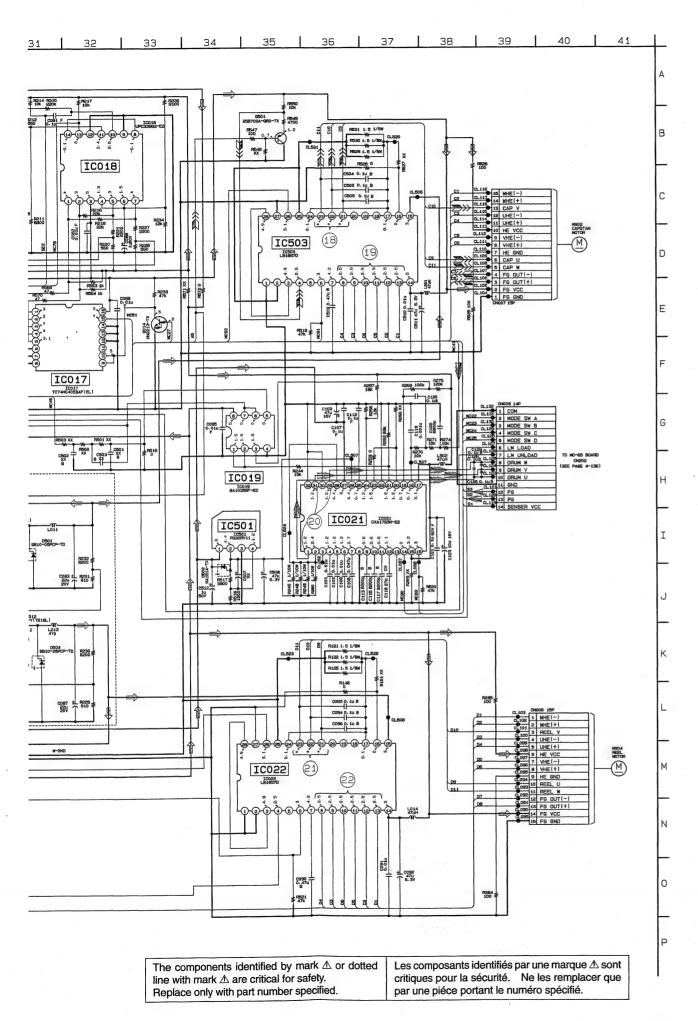
ew cases that the part isn't mounted in this model is nis diagram.

RS-80
(RS-422A IF)
(IF, VIDEO IN/OUT, UVIC, DV IN/OUT, MONITOR OUT, HI MICOM, RS MICOM U-2 (POWER 2) RP-228 (REC/PB AMP) (V/A IN/OUT) GENERATOR) (TAPE DETECT) 3 DETECT) CB-67 (AUDIO OUT) U-1 (POWER 1) JC-19 AD/DA CONVERTER, S1 AFC, U1, \ D1, C1 SPCON, MODE, DV IN/OUT, HP-118 (AUDIO) AUDIO CORE, DIGITAL AUDIO, AUDIO D/A, A/D CONVERTER FR-158 CM-56 (SERVO, SYSTEM CONTROL) PLAY CONTROL) MD-64 (TAPE DETECT)









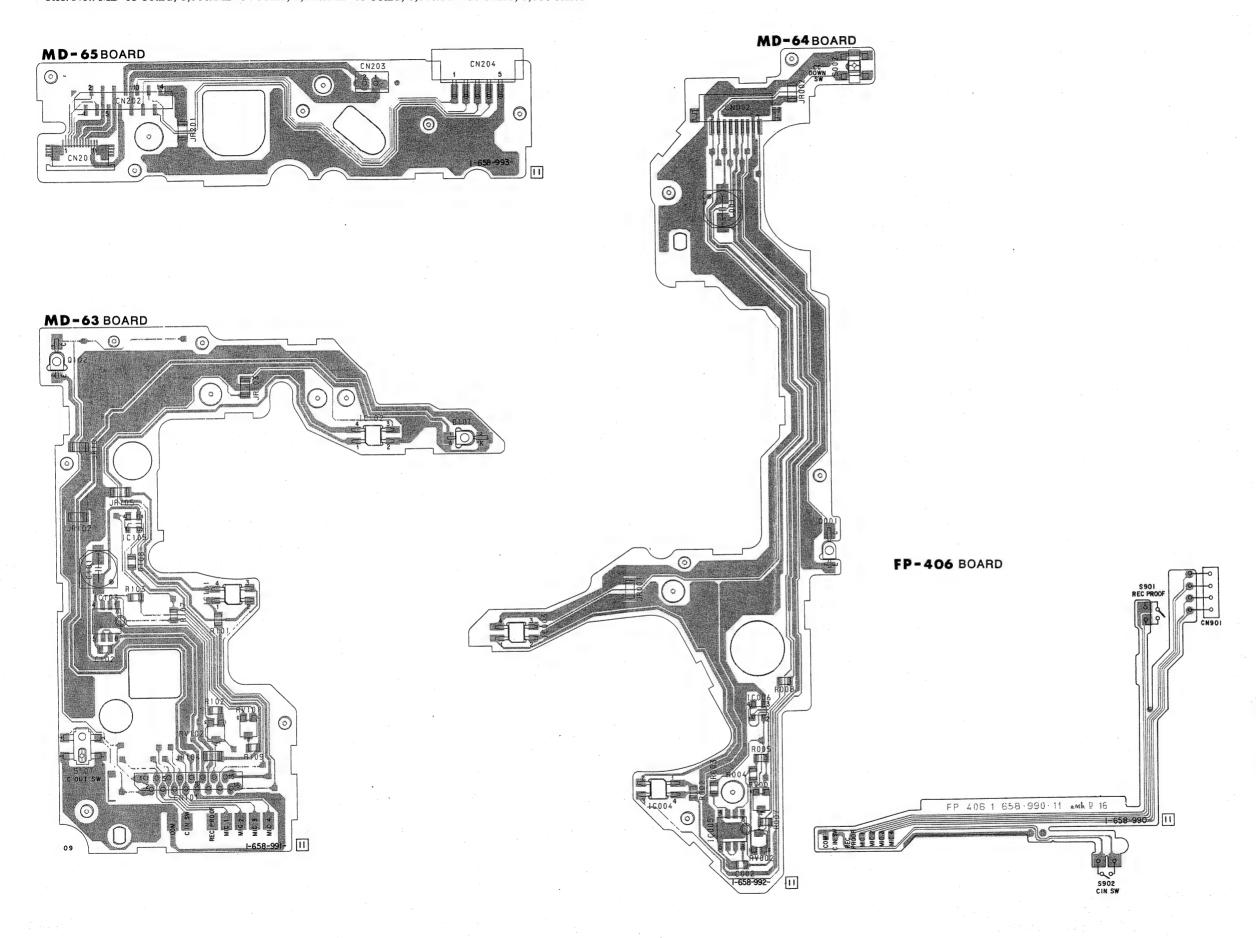
CM-56 BOARD 1 0 9 3.0 Vp-p 3.0 Vp-p 4.8 Vp-p 6.6 msec 6.6 msec 6.6 msec IC011 @ REC/PB IC008 1 REC/PB IC003 (5) REC/PB 13 0 3.1 Vp-p 0.5 Vp-p 0.28 Vp-p 100 msec 3.3 msec 1.1 msec IC011 ① REC/PB IC503 @ - @ REC/PB IC003 6 REC/PB 8 • 0.1 Vp-p 0.03 Vp-p 1.9 Vp-p 20 MHz 100 msec 6.6 msec IC003 (1) REC/PB IC011 ® REC/PB IC503 ® - 13 REC/PB 0 3.0 Vp-p 3.0 Vp-p 2.56 msec 26 µsec 1.1 msec IC014 ① REC/PB IC021 ① ② ③ REC/PB IC003 49 REC/PB 6 B 4 0.1 Vp-p 3.0 Vp-p 390 msec 13.2 msec 26 µsec IC022 ® - ® REC/PB IC003 @ REC/PB IC005 @ PB 6 3.0 Vp-p 6.6 msec 390 msec 26 µsec IC022 20 - 23 REC/PB IC003 49 REC/PB IC005 16 PB **1** 0 5.0 Vp-p 3.6 Vp-p 0.76 msec 0.76 msec IC011 @ REC/PB IC008 3 REC/PB 8 1 5.0 Vp-p 3.6 Vp-p 1.1 msec 1.1 msec IC011 @ REC/PB IC008 6 REC/PB

SERVO, SYSTEM CONTROL CM-56

4-131

#### MD-63, MD-64, MD-65 (TAPE DETECT), FP-406 (TAPE SENSOR) PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

- Ref. No.: MD-63 board; 8,000/MD-64 board; 8,000/MD-65 board; 8,000/FP-406 board; 8,000 series -

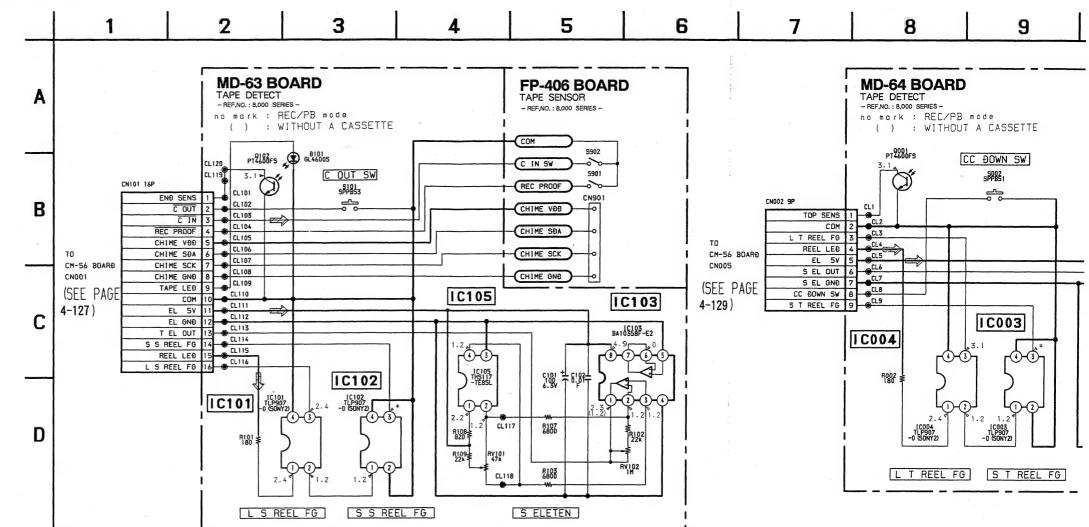


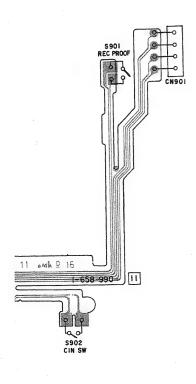
- For Printed Wiring Board.
- There are few cases that the part isn't mounted in this model on this diagram.

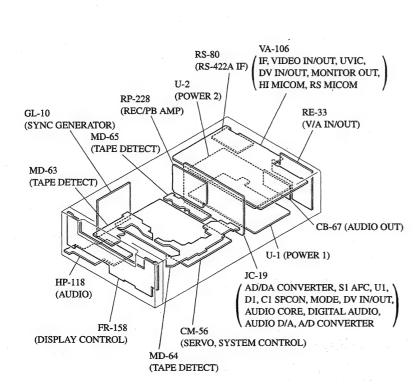
RS-80 (RS-422A IF) (IF, VIDI DV IN/C U-2 HI MIC (POWER 2) RP-228 GL-10 (SYNC GENERATOR) (TAPE DETECT MD-63 (TAPE DETECT) JC-19 AD/DA CO D1, C1 SPC HP-118 (AUDIO) AUDIO CO FR-158 (DISPLAY CONTROL) (SERVO, SYSTEM CONTR MD-64 (TAPE DETECT)

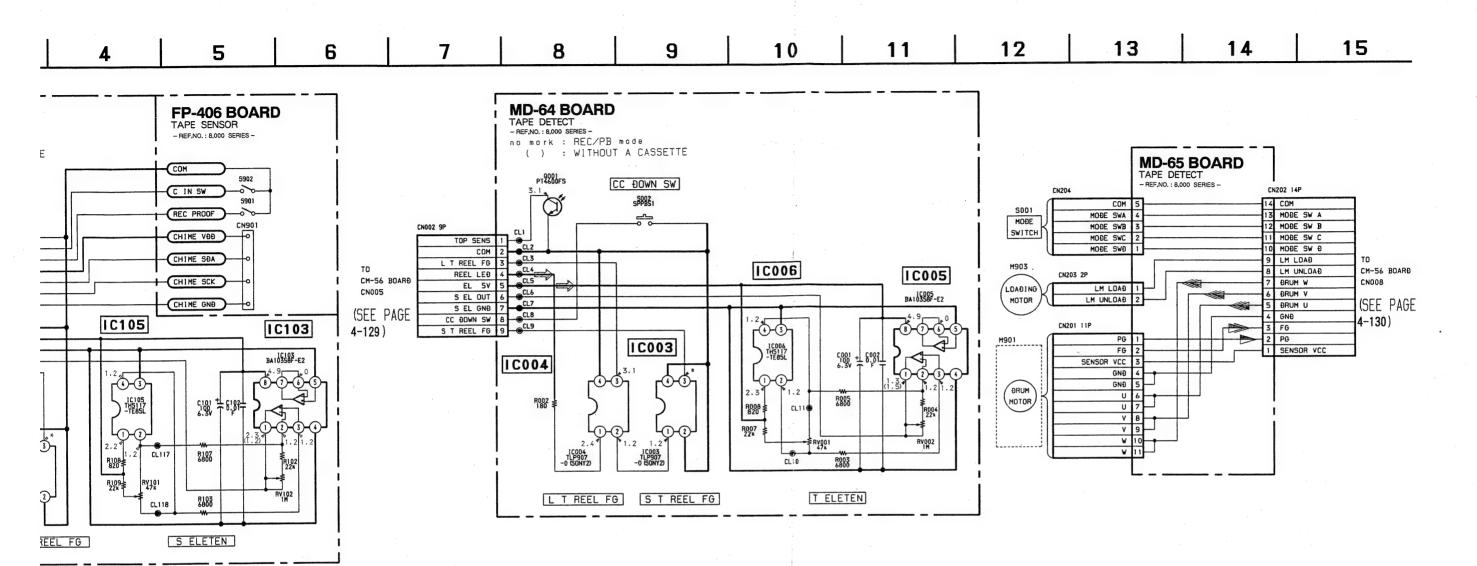
4-132 TAPE DETECT, TAPE SENSOR MD-63, MD-64, MD-65 FP-406 V23312 / Druck 78

- For Printed Wiring Board.
- There are few cases that the part isn't mounted in this model is printed on this diagram.









	REC	REC/PB
Orum speed servo		
Davis about 2000		

PB

· SIGNAL PATH

Drum phase servo

Drum servo(speed and phase)

Capstan speed servo

Capstan phase servo

Capstan servo(speed and phase)

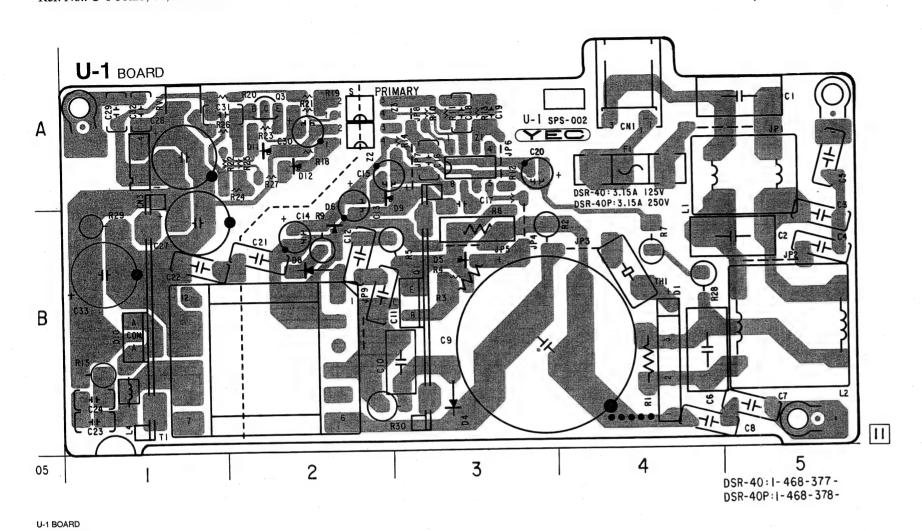
Ref.signal

# U-1 (POWER 1) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

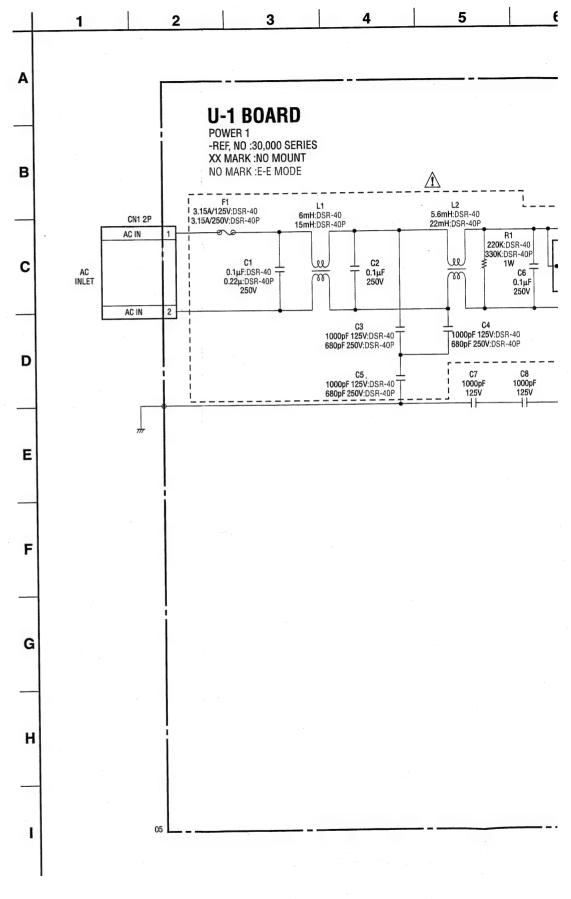
- Ref. No.: U-1 board; 30,000 series -

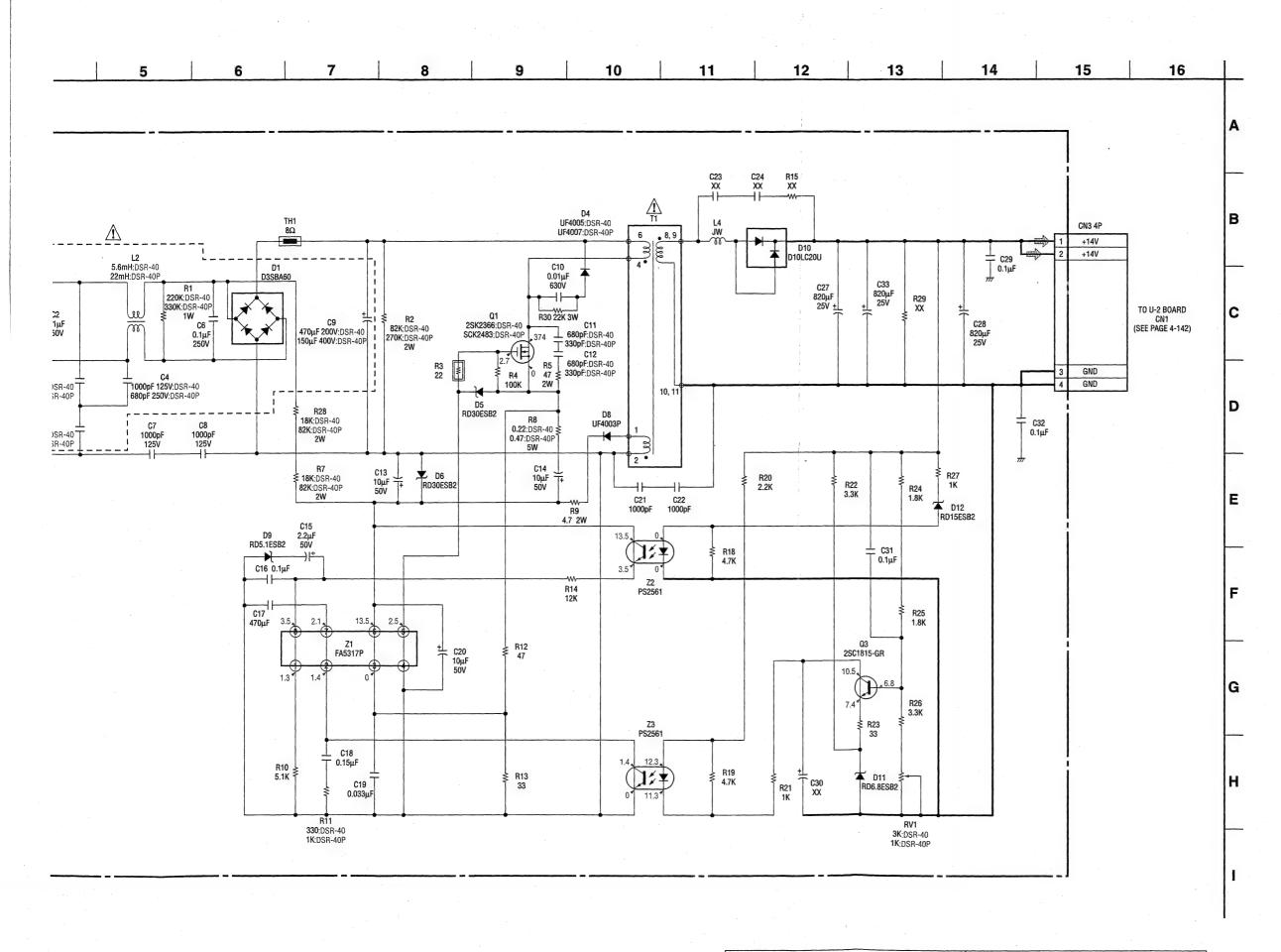


For Printed Wiring Board.
There are few cases that the part isn't mounted in this model is printed on this diagram.



CN1 CN3	A-4 A-1	
D1 D4 D5 D6 D8 D9 D10 D11 D12	B-4 B-3 B-2 B-2 B-2 A-2 B-1 A-2 A-2	RS-80 (RS-422A IF)  U-2  RP-228 (POWER 2)  GL-10 (REC/PB AMP) (SYNC GENERATOR)  (RS-80 (IF, VIDEO IN/OUT, UVIC, DV IN/OUT, MONITOR OUT, HI MICOM, RS MICOM  RE-33 (V/A IN/OUT)
Q3	A-2	MD-65 (TAPE DETECT)
Z1	A-3	
Z2	A-2	MD-63
Z3	A-2	(TAPE DETECT)
		HP-118 (AUDIO)  CB-67 (AUDIO OUT)  U-1 (POWER 1)  JC-19 AD/DA CONVERTER, S1 AFC, U1, D1, C1 SPCON, MODE, DV IN/OUT,
		AUDIO CORE, DIGITAL AUDIO, AUDIO D/A, A/D CONVERTER
		CIVI-30
		(DISPLAY CONTROL) (SERVO, SYSTEM CONTROL)
	MD-64	
		(TAPE DETECT)
		(IAFE DETECT)





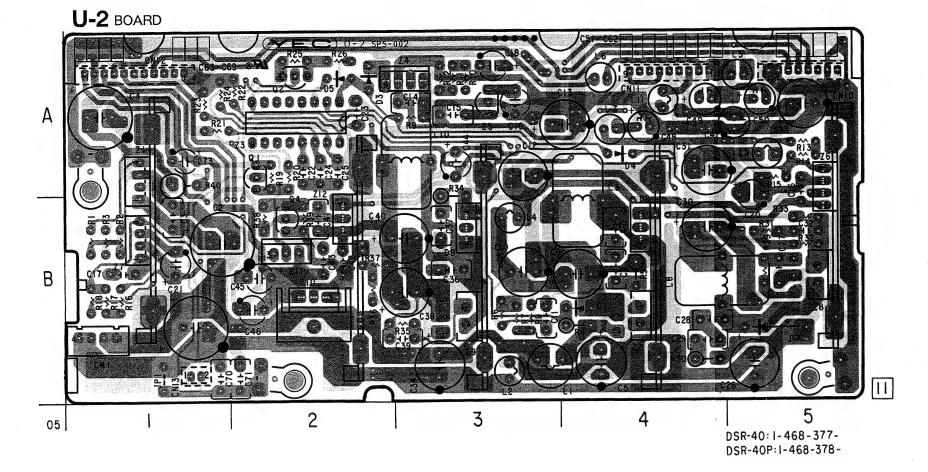
The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

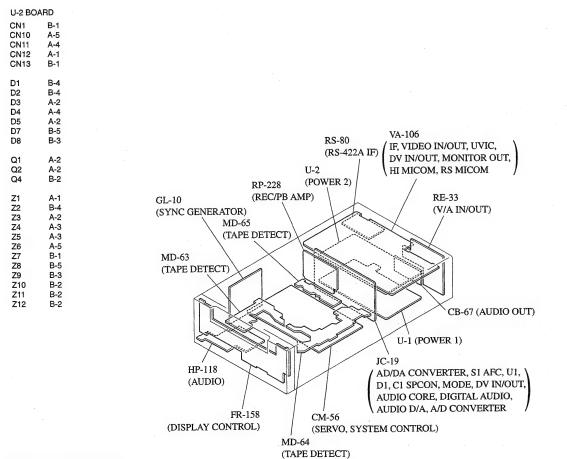
Les composants identifiés par une marque ∆ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

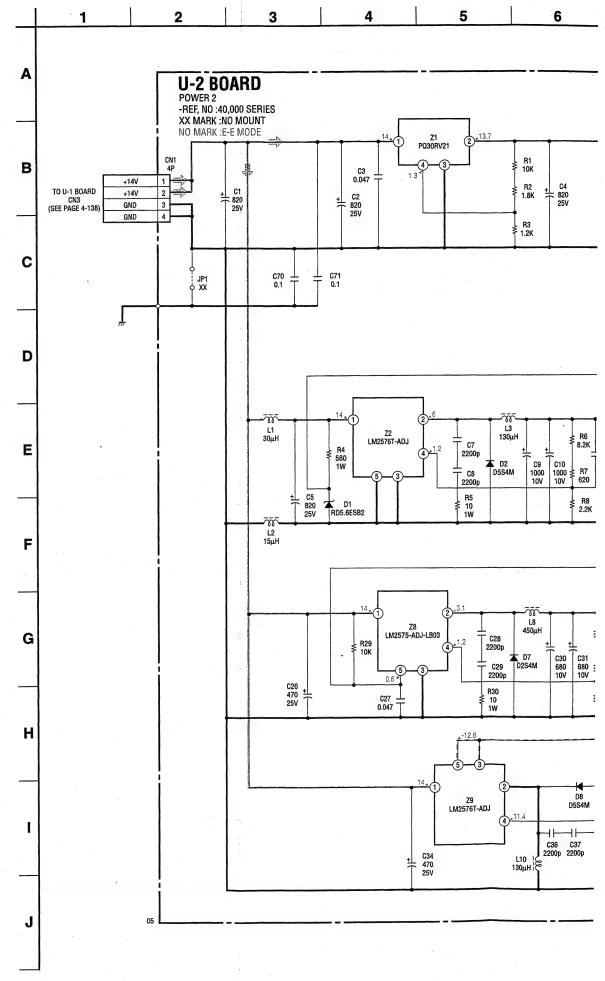
## U-2 (POWER 2) PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

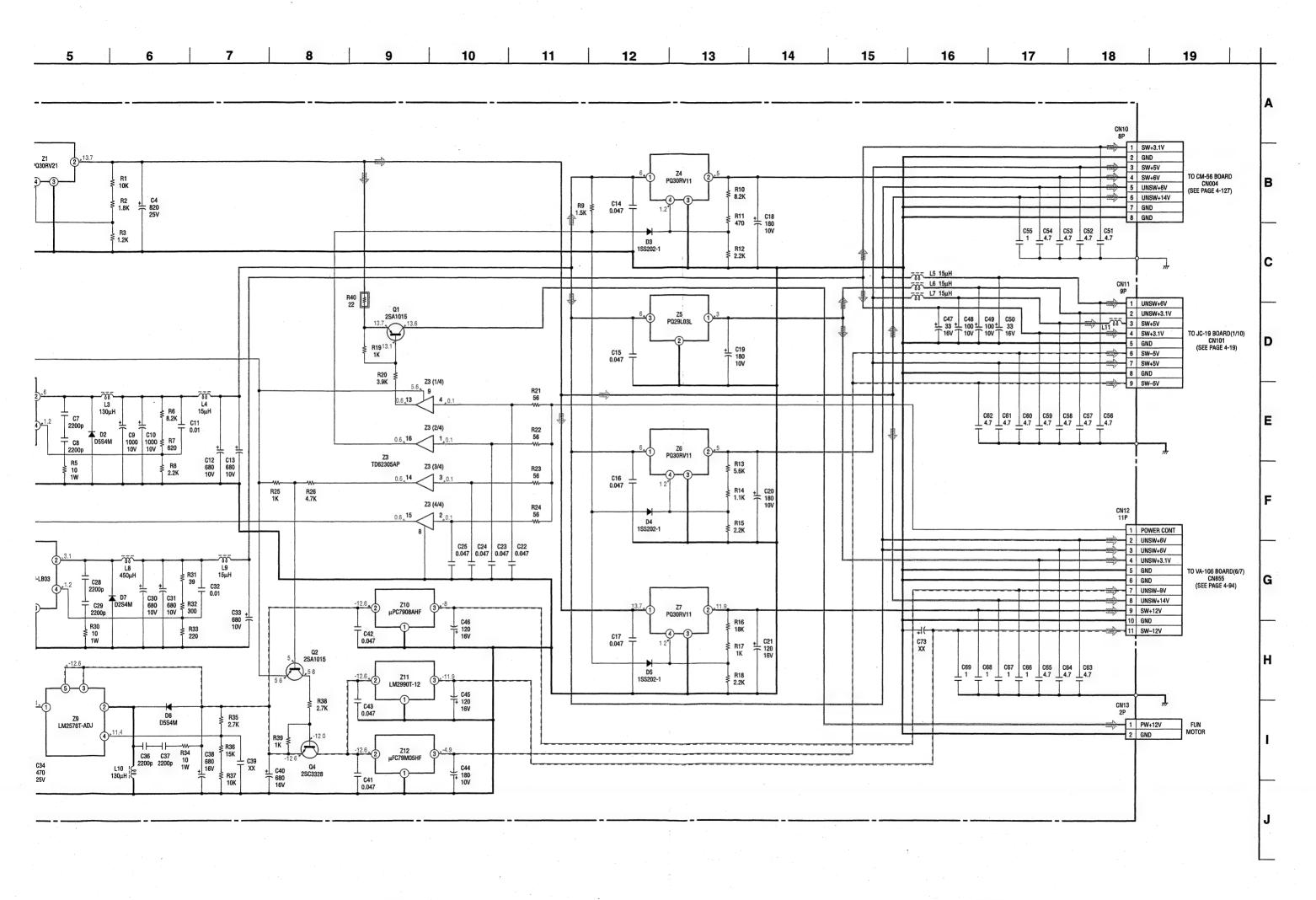
- Ref. No.: U-2 board; 40,000 series -

- For Printed Wiring Board.
- : Pattern from the side which enables seeing.
  - : Pattern on the rear side.
- There are few cases that the part isn't mounted in this model is printed on this diagram.







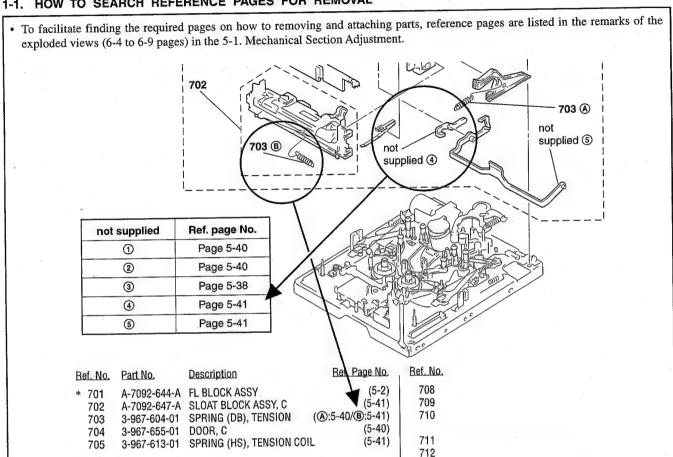


# **SECTION 5 ADJUSTMENTS**

# 5-1. MECHANICAL SECTION ADJUSTMENTS

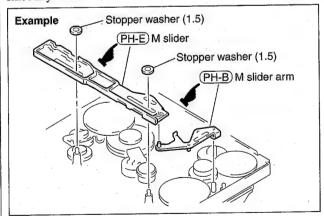
#### 5-1-1. INFORMATION

# 1-1. HOW TO SEARCH REFERENCE PAGES FOR REMOVAL

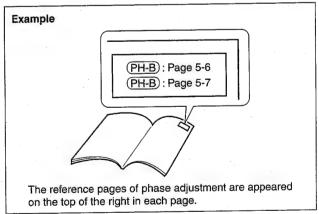


# 1-2. PHASE ADJUSTMENT MARK "PH-"

Numerous phase adjustments must be performed for removing and attaching parts (replacing parts) of the E mechanism. When removing and attaching parts, be sure to check the phase adjustment of corresponding parts. Parts that need phase adjustment are indicated with PH- mark. When replacing parts indicated with PH- mark, check their positions and phases so that the parts are attached smoothly in later.



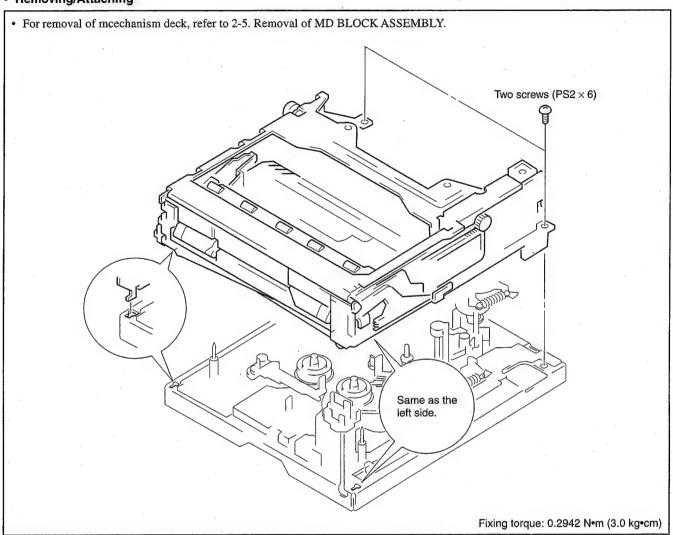
In case of the above figure, refer to (B) and (E) of "5-1-3. PHASE ADJUSTMENTS"



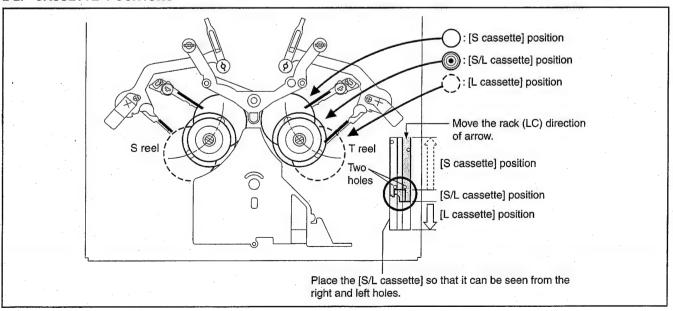
# 5-1-2. PREPARATION FOR MECHANICAL CHECK, ADJUSTMENT AND MAINTENANCE

# 2-1. FL BLOCK ASSEMBLY

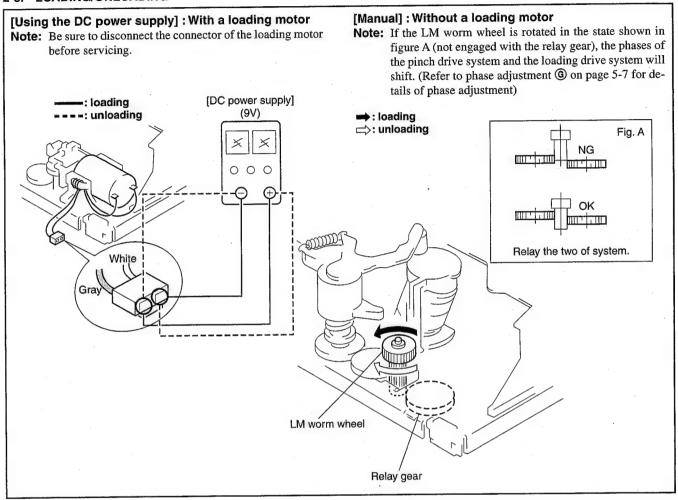
# Removing/Attaching



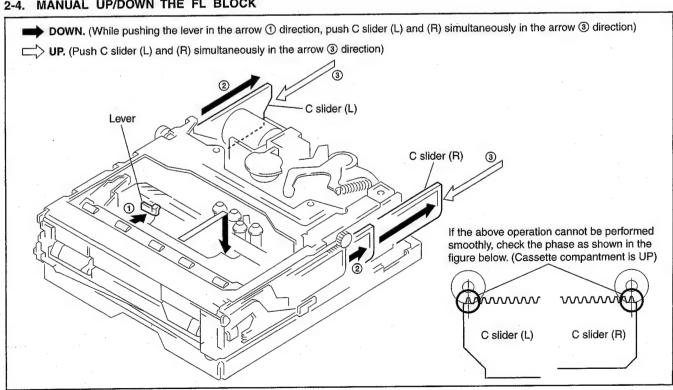
# 2-2. CASSETTE POSITIONS



#### 2-3. LOADING/UNLOADING



# 2-4. MANUAL UP/DOWN THE FL BLOCK



#### 2-5. SERVICE JIGS LIST

Ref. No.	Name	Part No.	Fixtur No.	Usage, Others Application, etc
J-1	Cleaning fluid	Y-2031-001-0		For cleaning drum assembly and tape guide
J-2	Wiping cloth	7-741-900-53		For cleaning drum assembly
<b>J</b> -3	Super fine applicator (Made by NIPPON APPLICATOR (P752D))			For cleaning tape guide
J-4	Mirror (Small oval type)	J-6080-840-A	GD-2038	Tape path
J-5	Tracking tape (XH2-1AST) Standard cassette	8-967-999-01		Tape path (for tape top checking)
	Tracking tape (XH2-1ASE) Standard cassette	8-967-999-06	,	Tape path (for tape end checking)
	Tracking tape (XH2-1A1) Mini cassette	8-967-999-03		Tape path (for checking)
J-6	Mini DV torque cassette	J-6082-360-A		For adjusting FWD/RVS back tension
J-7	Cassette standard plate (D/E mechanism)	J-6082-330-A		For adjusting tape guide and reel table
J-8	Reel standard plate (D/E mechanism)	J-6082-331-A		For adjusting reel table
J-9	TG2/7 preset plate	J-6082-358-A		For adjusting tape guide
J-10	Screwdriver for tape path	J-6082-026-A		For adjusting tape guide
J-11	Adjusting remote commander (RM-95 remodeled partly) Note 1	Ј-6082-053-В	м	Tape path
J-12	Torque driver	J-9049-330-A		Mechanism check and replacement
J-13	Tension regulator adjustment board	J-6082-359-A		Electric tension regulator adjustment
J-14	CPC 8-jig	J-6082-388-A		Tape path

# Other equipment used

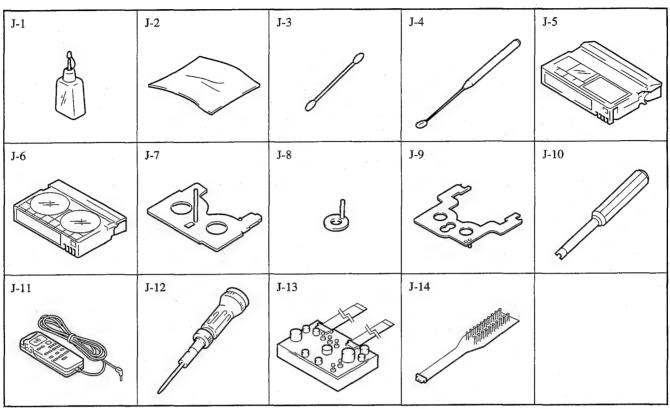
- Oscilloscope
- DC power supply
- · Digital voltage meter

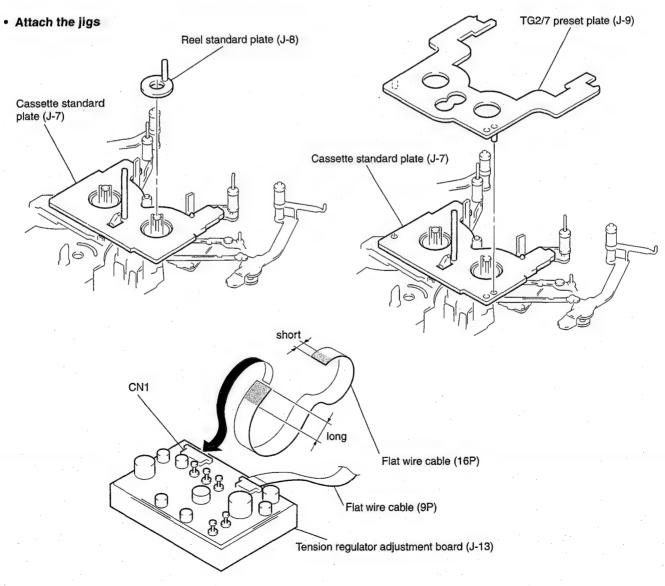
**Note 1:** If the micro processor IC in the adjusting remote commander is not the new micro processor (UPD7503G-C56-12), the pages cannot be switched.

In this case, replace with the new micro processor (8-759-148-35).

# Tape path:

- 1. Make a checking and adjustment at the tape top using the XH1-1AST tape.
- 2. Then, make a checking with the XH2-1ASE (for tape end) and XH2-1A1 (Mini cassette for tape top and end).
- 3. Again make a checking with the XH2-1AST.



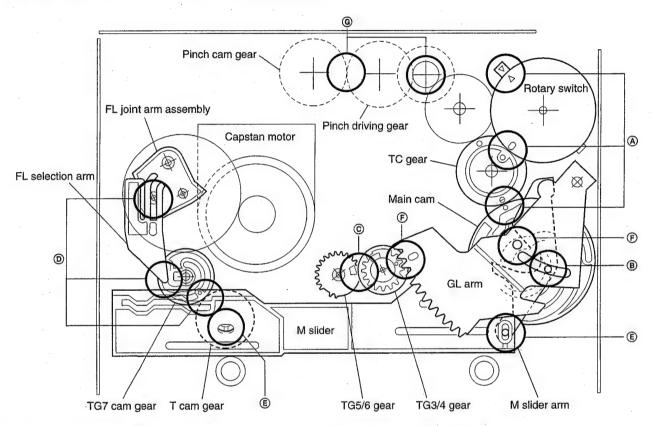


### 5-1-3. PHASE ADJUSTMENTS

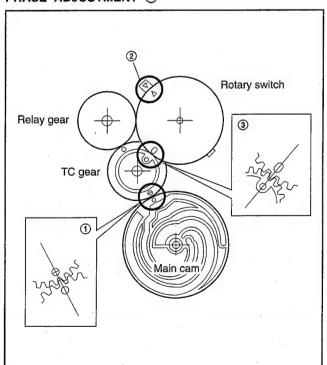
• This section classifies the phase adjustment into three blocks for clarity. The attaching order of each part is not described here. For details of the attaching order, refer to "5-1-5. MECHANISM SECTION CHECKS AND REPLACEMENTS".

# 3-1. PHASE ADJUSTMENT (Loading/Unloading Driving Section)

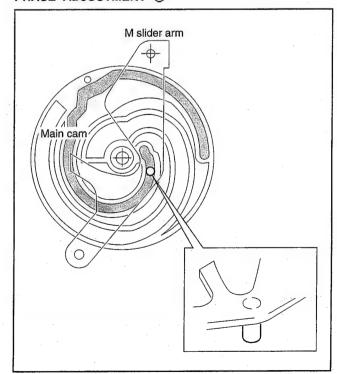
**Note 1:** Adjust it at the **UNLOADING** position unless otherwise specified. **Note 2:** (a) to (a) shown below are the orders for the phase adjustment.



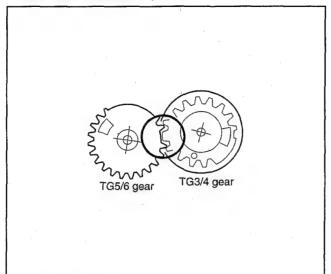
# PHASE ADJUSTMENT (A)



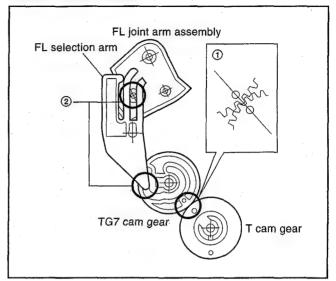
# PHASE ADJUSTMENT ®



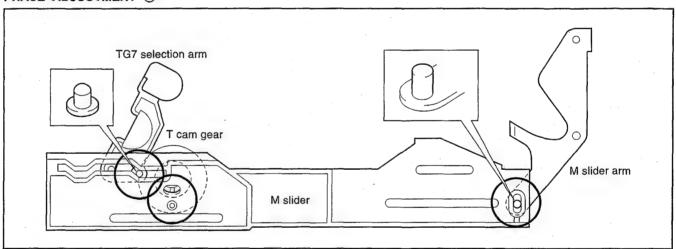
#### PHASE ADJUSTMENT ©



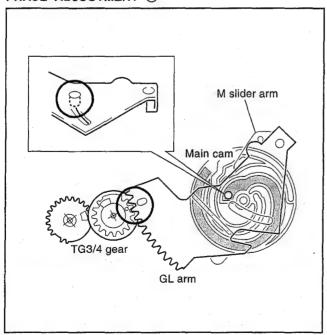
# PHASE ADJUSTMENT ®



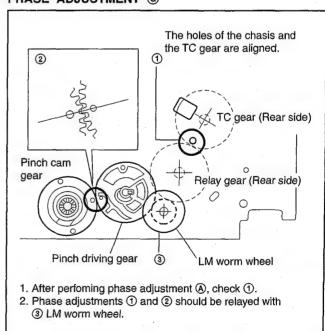
# PHASE ADJUSTMENT (E)



# PHASE ADJUSTMENT (F)



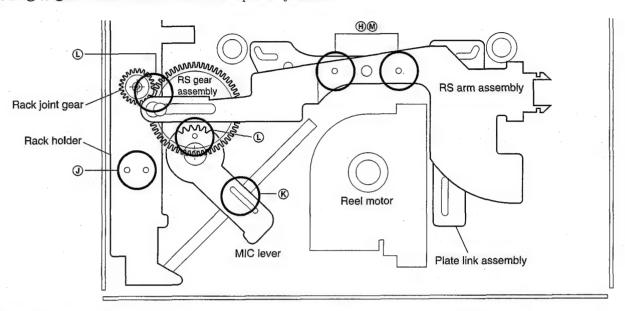
# PHASE ADJUSTMENT @



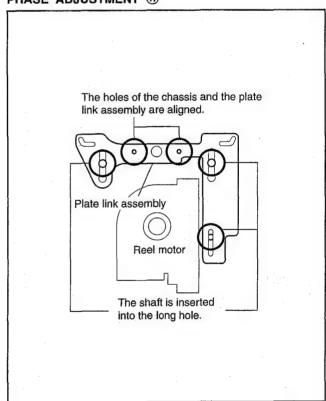
# 3-2. PHASE ADJUSTMENT (S/L Cassette Selection Section)

Note 1: Adjust if at the **S/L cassette** position unless otherwise specified.

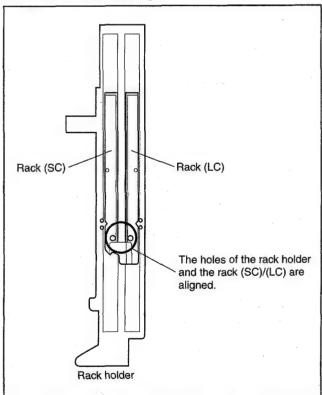
Note 2: (H) to (M) shown below are the orders for the phase adjustment.



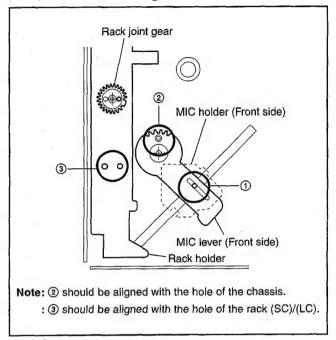
#### PHASE ADJUSTMENT (H)



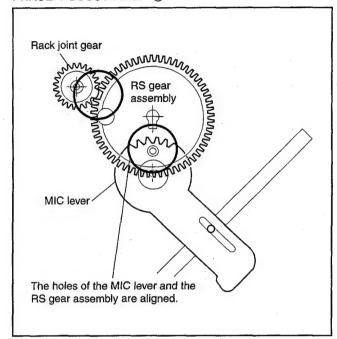
# PHASE ADJUSTMENT ①



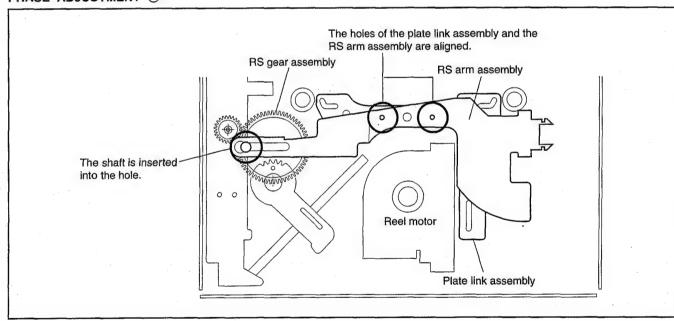
# PHASE ADJUSTMENT ®



# PHASE ADJUSTMENT (L)



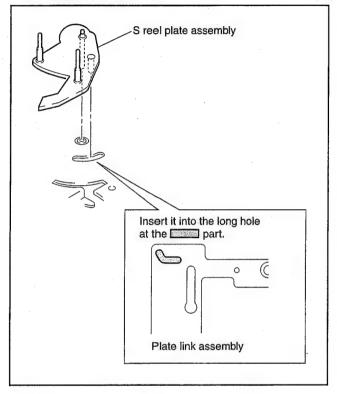
# PHASE ADJUSTMENT M



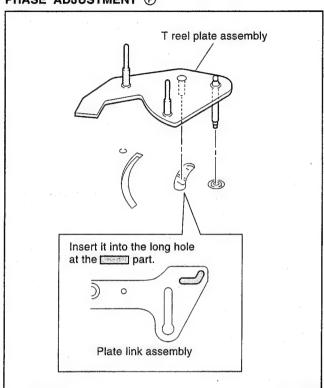
# 3-3. PHASE ADJUSTMENT (Mechanism Chassis Upper Surface Parts)

**Note:** Adjust if at the **UNLOADING** position unless otherwise specified.

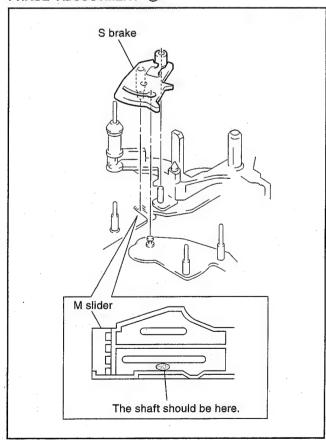
# PHASE ADJUSTMENT (N)



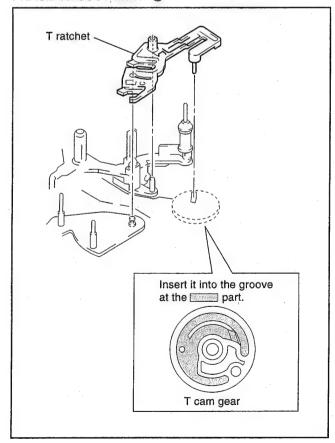
PHASE ADJUSTMENT (P)



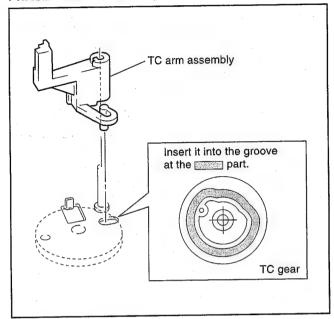
PHASE ADJUSTMENT @



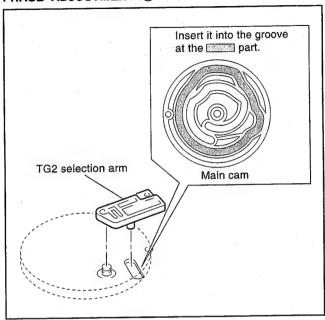
PHASE ADJUSTMENT ®



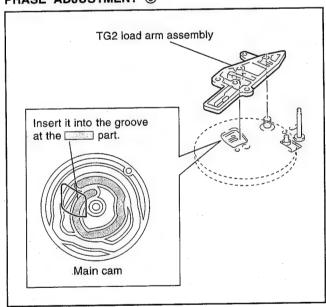
# PHASE ADJUSTMENT (\$)



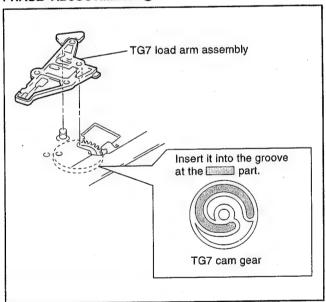
# PHASE ADJUSTMENT ①



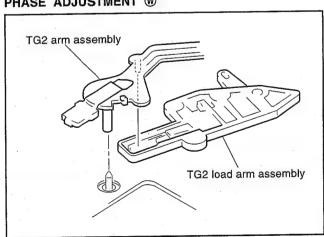
# PHASE ADJUSTMENT (1)



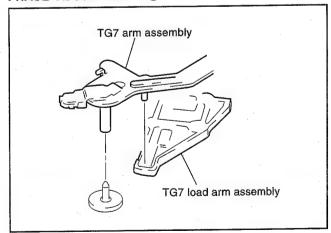
PHASE ADJUSTMENT W



# PHASE ADJUSTMENT W



# PHASE ADJUSTMENT &



#### 5-1-4. PERIODIC CHECK AND MAINTENANCE

 Carry out the following maintenance and periodic checks not only to fully display the functions and performance of the set, but also for the equipment and tape. After repairing, service the set as follows, regardless of the length of use.

#### 4-1. CLEANING OF ROTARY DRUM ASSEMBLY

1) Press a wiping cloth (Ref No. J-2) moistened with cleaning fluid (Ref No. J-1) against the rotary drum assembly gently, and clean it while rotating the upper rotary drum assembly slowly with your finger in the counterclockwise direction.

**Note:** Do not rotate the motor on power or rotate the upper rotary drum assembly in the clockwise direction with your finger. The head tip will also be damaged if the wiping cloth is moved perpendicularly against it.

Therefore, be sure to follow the above instructions when cleaning the rotary drum assembly.

# 4-2. CLEANING OF TAPE PATH SYSTEM (See Fig. 1.)

1) In the EJECT mode, clean the tape path systems (TG-1, 2, 3, 4, 5, 6, 7, 8, capstan) and the lower drum using a superfine applicator (Ref No. J-3) moistened with cleaning fluid.

Note 1: Make sure that no oil or grease of the link mechanisms sticks to the superfine applicator. (Ref No. J-3)

Note 2: Do not use a applicator moistened with alcohol to the other guide cleaning. But clean the pinch roller using alcohol.

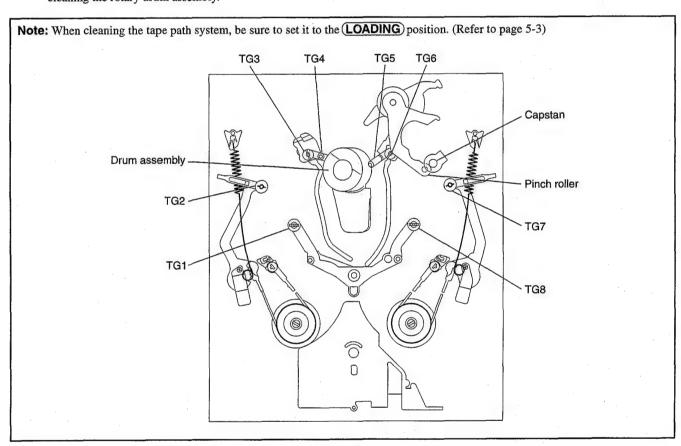


Fig. 1.

# 4-3. PERIODIC CHECKS

Location of Maintenance and Check		Hours of Use (H)										Remarks
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	Homano
	Cleaning of tape path surface	0	0	0	0	0	0	0	0	0	0	Take care not to
	Cleaning and degaussing of rotary drum assembly	0	0	0	0	0	0	0	0	0	0	adhere the oil.
Driving System	Capstan shaft (Bearing)	-	☆		☆	-	☆	_	☆	_	☆	Make sure that no oil gets on the tape path surface.
	Loading motor	_	☆	_	☆	-	☆	_	☆	_	☆	A-7026-007-A
Performance Confirmation	Abnormal noise	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	Back tension measurement		☆	_	☆	-	☆	_	☆		☆	
	Brake system	_	☆	_	☆	-	☆	_	☆	-	☆	
	FWD RVS Torque measurement		☆	-	☆	-	☆	-	☆	_	.☆	

O: Cleaning ☆: Confirmation

**Note:** When overhauling, refer to the checks above and replace parts.

Note: Grease

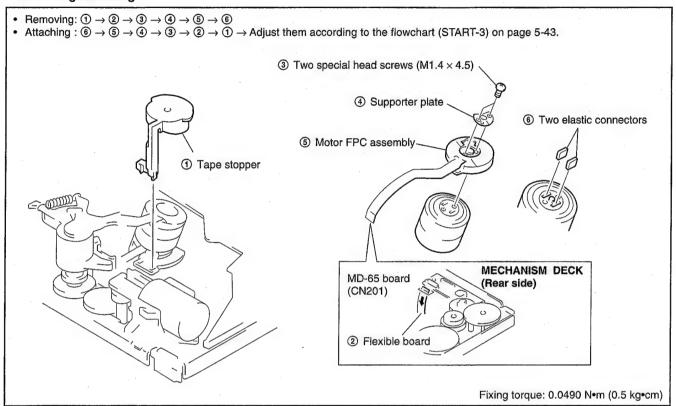
Be sure to use the specified the grease. (The SG-055G is used all in the E mechanism)
 Check the quantity of grease when installing the parts which is needed to apply the grease.

• FLOIL (SG-055G): Part No. 7-651-000-09

#### 5-1-5. MECHANISM SECTION CHECKS AND REPLACEMENTS

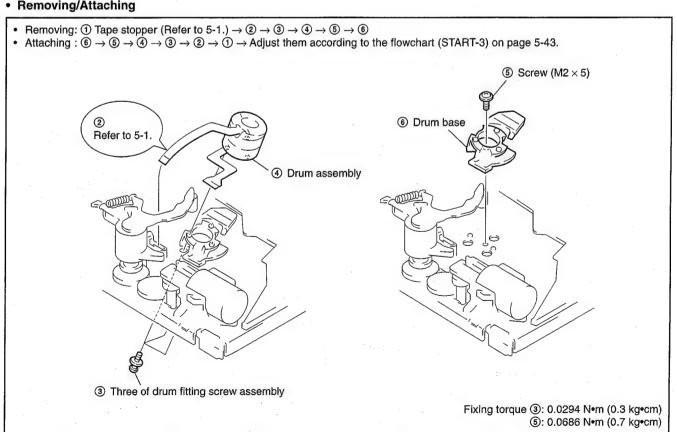
#### 5-1. TAPE STOPPER, MOTOR FPC ASSEMBLY AND ELASTIC CONNECTOR

#### Removing/Attaching



#### 5-2. DRUM ASSEMBLY AND DRUM BASE

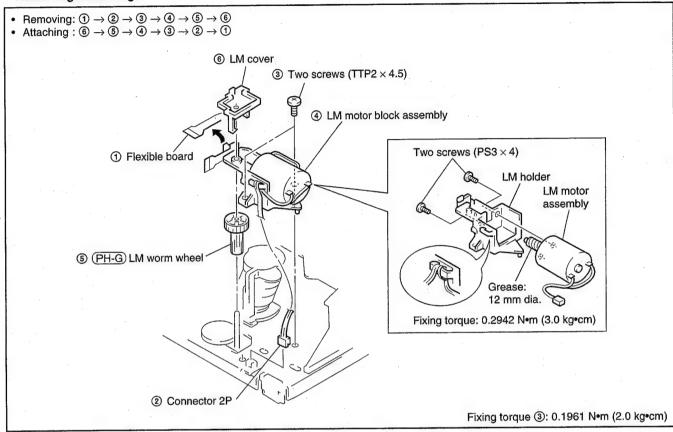
#### · Removing/Attaching



PH-G : Page 5-7 PH-S : Page 5-11

# 5-3. LM COVER, LM WORM WHEEL, LM HOLDER AND LM MOTOR ASSEMBLY

#### · Removing/Attaching



# 5-4. TG3/4 CATCHER BLOCK ASSEMBLY, PINCH DRIVING GEAR AND TC ARM ASSEMBLY

Removing/Attaching

Removing: After removing the LM motor assembly (Refer to 5-3.), remove each part.

Attaching: After attaching each part and the LM motor block assembly, adjust them according to the flowchart (START-3) on page 5-43. (Only when the TG3/4 catcher block assembly is removed)

Screw (M1.4 × 2.5)

Rever turn this screw as it has been adjusted.

TG3/4 catcher block assembly

PH-S TC arm assembly

PH-S TC arm assembly

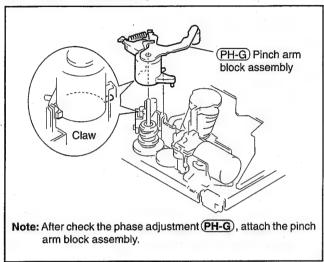
Fixing torque: 0.0686 Nem (0.7 kgecm)

**PH-G**: Page 5-7

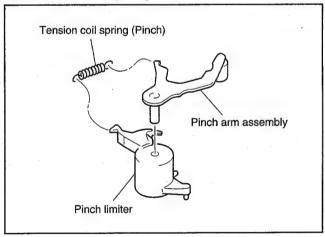
# 5-5. PINCH ARM ASSEMBLY, PINCH LIMITER AND TENSION COIL SPRING (PINCH)

1. Removing

- 1. Set the **UNLOADING** position. (Refer to page 5-3)
- 2. Pinch arm block assembly.



3. Pinch arm assembly and pinch limiter.



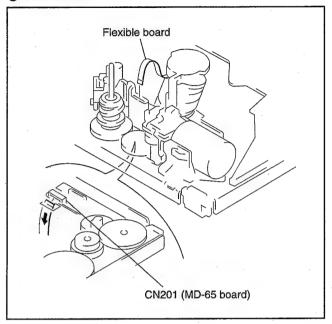
2. Attaching

- **1**. Attach the parts in the order of  $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .
- **2.** Adjust them according to the flowchart (START-3) on page 5-43.
- 5-6. HC ARM, HC ROLLER ASSEMBLY, PINCH RETAINER, PINCH CAM GEAR AND TG5/6 CATCHER BLOCK ASSEMBLY

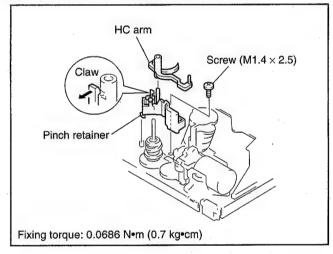
1. Removing

- 1. Set the **UNLOADING** position. (Refer to page 5-3)
- 2). Pinch arm block assembly. (Refer to 5-5)

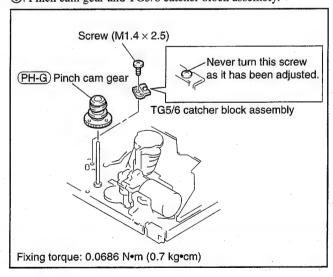
3. Flexible board.



4. HC arm, HC roller assembly and pinch retainer.



(5). Pinch cam gear and TG5/6 catcher block assembly.

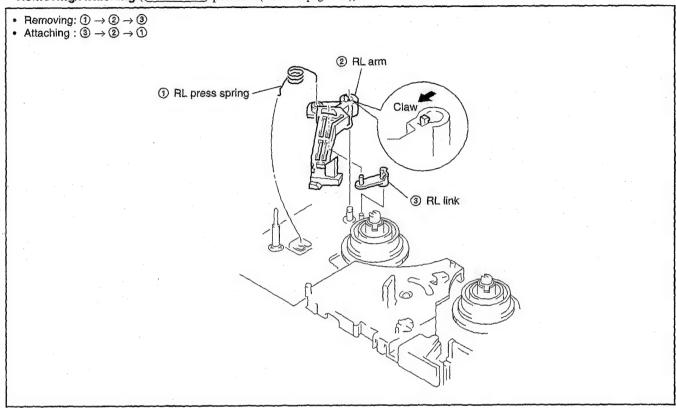


2. Attaching

- **1**. Attach the parts in the order of  $\textcircled{1} \rightarrow \textcircled{5} \rightarrow \textcircled{4} \rightarrow \textcircled{3} \rightarrow \textcircled{2}$ .
- 2. Adjust them according to the flowchart (START-3) on page 5-43.

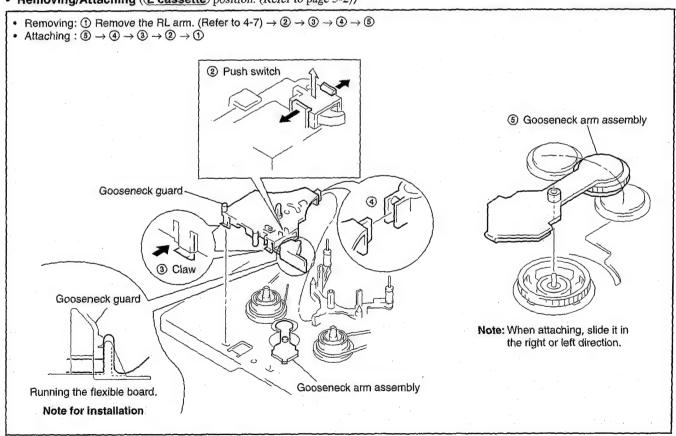
# 5-7. RL ARM AND RL LINK

• Removing/Attaching (L cassette) position. (Refer to page 5-2))



# 5-8. GOOSENECK GUARD AND GOOSENECK ARM ASSEMBLY

• Removing/Attaching (L cassette) position. (Refer to page 5-2))

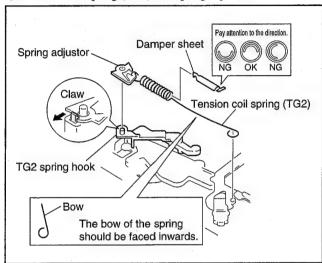


# 5-9. TENSION COIL SPRING (TG2), SPRING ADJUSTOR, TG2 SPRING HOOK, TG2 SELECTION ARM AND DAMPER SHEET

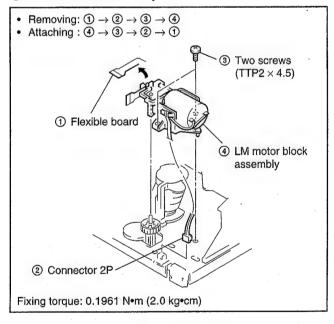
1. Removing

1. Set the **UNLOADING** position. (Refer to page 5-3)

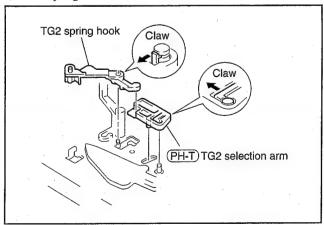
2. Tension coil spring (TG2) and spring adjustor.



## 3. LM motor block assembly.



#### 4. TG2 spring hook and TG2 selection arm.



#### 2. Attaching

**1**. Attach the parts in the order of  $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .

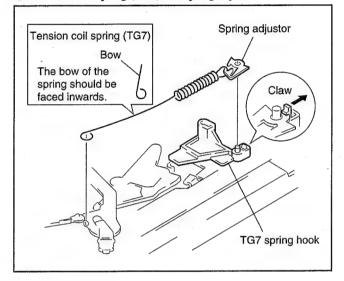
2. Adjust them according to the flowchart (START-2) on page 5-43.

# 5-10. TENSION COIL SPRING (TG7), SPRING ADJUSTOR AND TG7 SPRING HOOK

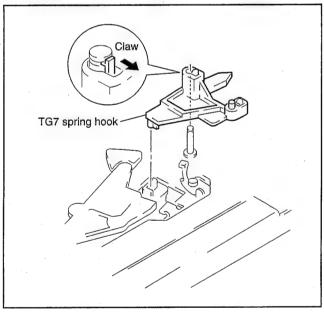
1. Removing

1. Set the **UNLOADING** position. (Refer to page 5-3)

2. Tension coil spring (TG7) and spring adjustor.



# 3. TG7 spring hook.



#### 2. Attaching

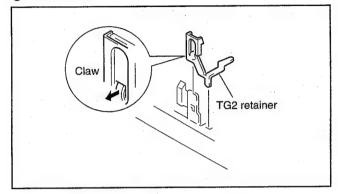
**1.** Attach the parts in the order of  $\bigcirc$   $\rightarrow$   $\bigcirc$   $\rightarrow$   $\bigcirc$ .

2. Adjust them according to the flowchart (START-2) on page 5-43.

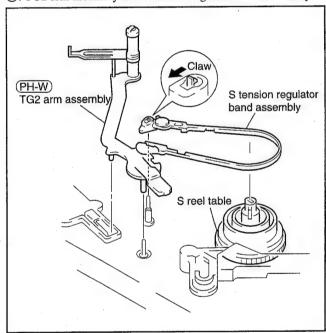
# 5-11. TG2 RETAINER, TG2 ARM ASSEMBLY (TG2 PLATE SPRING AND ET MAGNET), S TENSION REGULATOR BAND ASSEMBLY AND TG2 LOAD ARM ASSEMBLY

#### 1. Removing

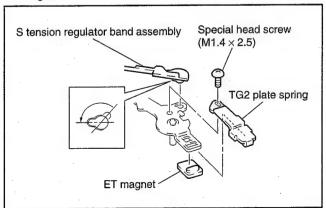
- ①. Tension coil spring (TG2), spring adjustor, LM motor block assembly and TG2 spring hook. (Refer to 5-9)
- 2. TG2 retainer.



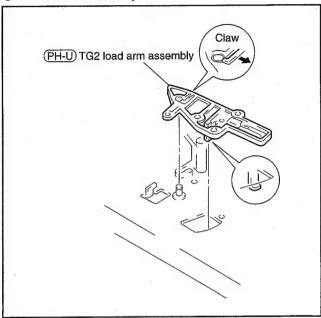
- 3. Set the **LOADING** position. (Refer to page 5-3)
- 4. TG2 arm assembly and S tension regulator band assembly.



(5). S tension regulator band assembly, TG2 plate spring and ET magnet.



6. TG2 load arm assembly.



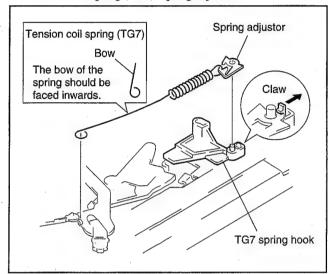
2. Attaching

- 1. Set the UNLOADING position. (Refer to page 5-3)
- **2**. Attach the parts in the order of  $(6) \rightarrow (3) \rightarrow (5) \rightarrow (4) \rightarrow (2) \rightarrow (1)$ .
- 3. Operation check: **LOADING**)/**UNLOADING**. (Refer to page 5-3)
- 4. Adjust them according to the flowchart (START-2) on page 5-43.

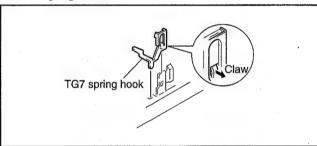
# 5-12. TG7 RETAINER, TG7 ARM ASSEMBLY (TG7 PLATE SPRING AND ET MAGNET), T TENSION REGULATOR BAND ASSEMBLY AND TG7 LOAD ARM ASSEMBLY

#### 1. Removing

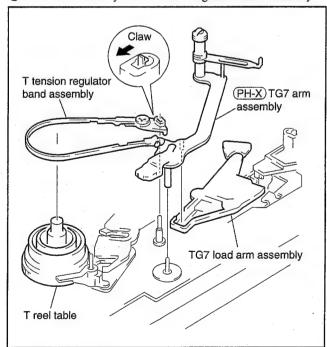
1. Tension coil spring (TG7), spring adjustor.



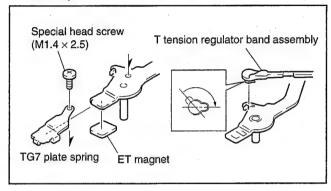
2. TG7 spring hook.



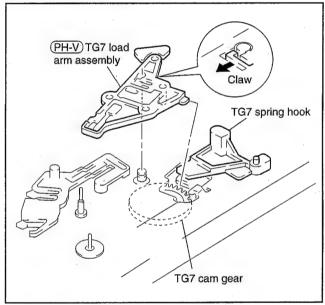
- 3. Set the **LOADING** position. (Refer to page 5-3)
- 4. TG7 arm assembly and T tension regulator band assembly.



(5). TG7 plate spring, ET magnet and T tension regulator band assembly.



6. TG7 load arm assembly.



2. Attaching

1. Set the **UNLOADING** position. (Refer to page 5-3)

**2**. Attach the parts in the order of  $(6) \rightarrow (3) \rightarrow (5) \rightarrow (4) \rightarrow (2) \rightarrow (1)$ .

3. Operation check: **LOADING**)/**UNLOADING**. (Refer to page 5-3.)

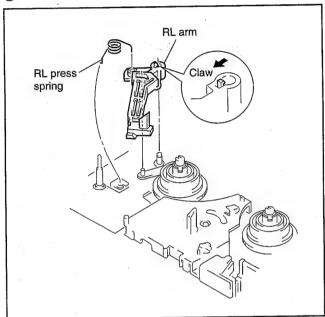
 Adjust them according to the flowchart (START-2) on page 5-43.

# 5-13. S REEL TABLE BLOCK ASSEMBLY

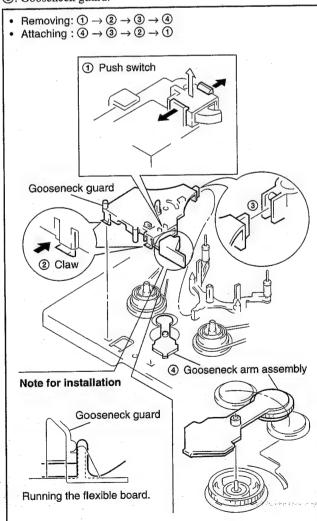
1. Removing

1. Set the (L cassette) position. (Refer to page 5-2)

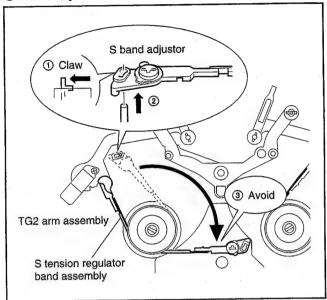
#### 2. RL arm



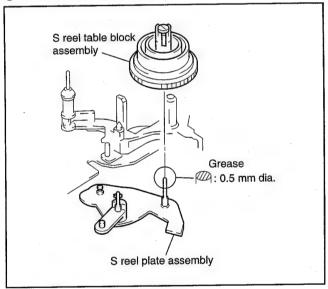
# 3. Gooseneck guard.



# 4. S band adjustor.



## 5. S reel table block assembly.



2. Attaching

**1.** Attach the parts in the order of  $\textcircled{1} \rightarrow \textcircled{5} \rightarrow \textcircled{4} \rightarrow \textcircled{3} \rightarrow \textcircled{2}$ .

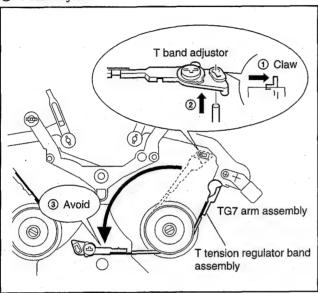
2. Adjust them according to the flowchart (START-1) on page 5-43.

# 5-14. T REEL HOLDER AND T REEL TABLE BLOCK ASSEMBLY

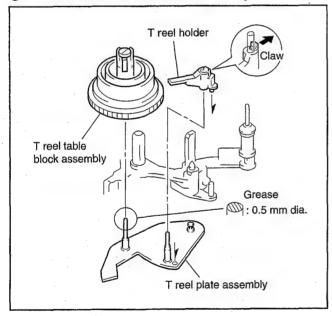
#### 1. Removing

1. Set the L cassette position. (Refer to page 5-2)

# 2. T band adjustor.



# 3. T reel holder and T reel table block assembly.



#### 2. Attaching

**1**. Attach the parts in the order of  $\bigcirc$   $\rightarrow$   $\bigcirc$  .

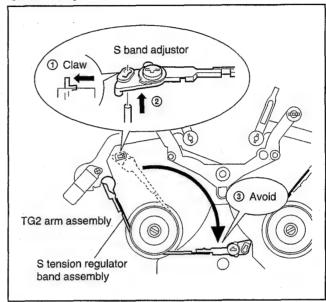
2. Adjust them according to the flowchart (START-1) on page 5-43.

# 5-15. S REEL PLATE ASSEMBLY

# 1. Removing

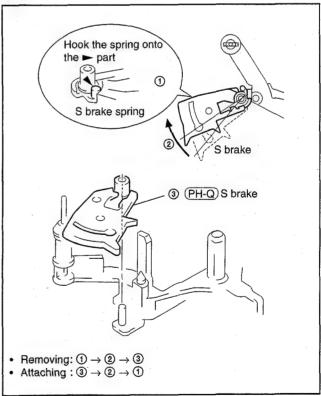
1. Set the L cassette position. (Refer to page 5-2)

### 2. S band adjustor.

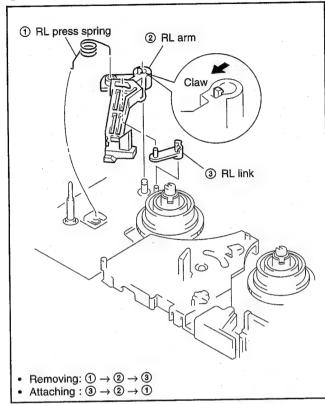


3. Set the **LOADING** position. (Refer to page 5-3)

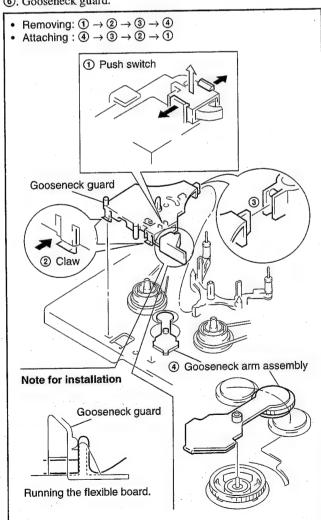
# 4. S brake.



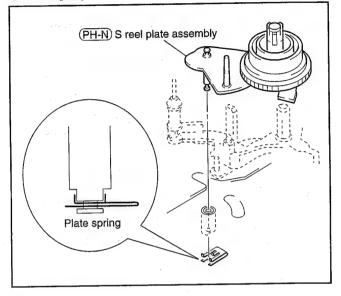
# (5). RL arm and RL link.



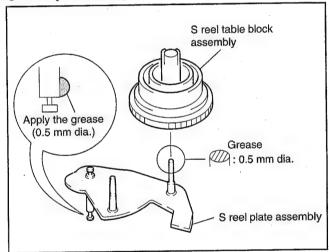
# 6. Gooseneck guard.



# 7. Plate spring



# (8). S reel plate assembly.



#### 2. Attaching

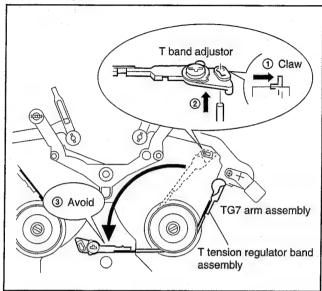
- **1.** Attach the parts in the order of  $\textcircled{1} \rightarrow \textcircled{8} \rightarrow \textcircled{7} \rightarrow \textcircled{4} \rightarrow \textcircled{3} \rightarrow \textcircled{4}$  $2 \rightarrow 6 \rightarrow 5$ .
- 2. Adjust them according to the flowchart (START-1) on page

#### 5-16. T REEL PLATE ASSEMBLY

1. Removing

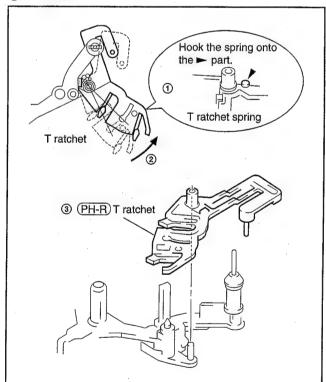
1. Set the **L cassette** position. (Refer to page 5-2)

2. T band adjustor.

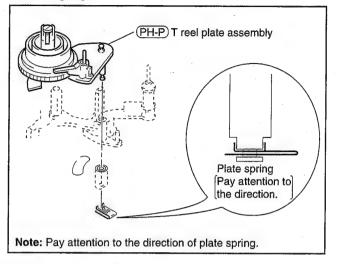


3. Set the **LOADING** position. (Refer to page 5-3)

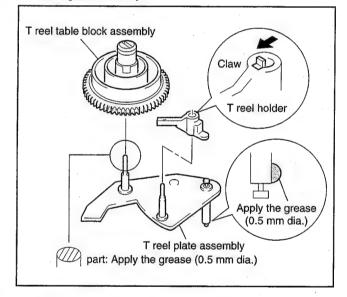
4. T ratchet.



3. Plate spring.



6. T reel plate assembly.



2. Attaching

**1**. Attach the parts in the order of  $\textcircled{1} \rightarrow \textcircled{6} \rightarrow \textcircled{5} \rightarrow \textcircled{3} \rightarrow \textcircled{4} \rightarrow \textcircled{2}$ .

2. Adjust them according to the flowchart (START-1) on page 5-43.

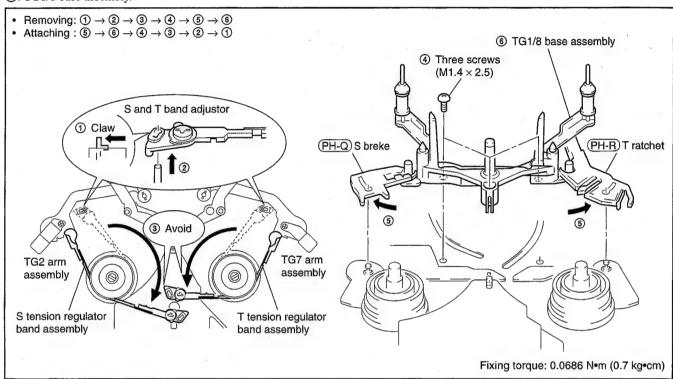
PH-Q , PH-R : Page 5-10

# 5-17. TG1/8 BASE ASSEMBLY, S BRAKE AND TRATCHET

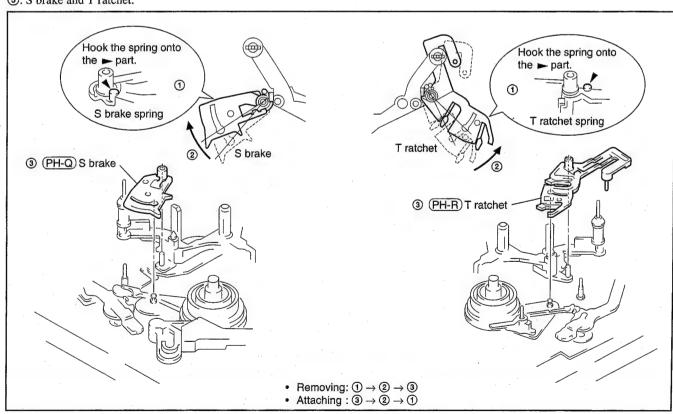
#### 1. Removing

1). Set the **LOADING** / **L cassette** positions. (Refer to pages 5-2 to 5-3)

#### 2. TG1/8 base assembly.



# 3. S brake and T ratchet.

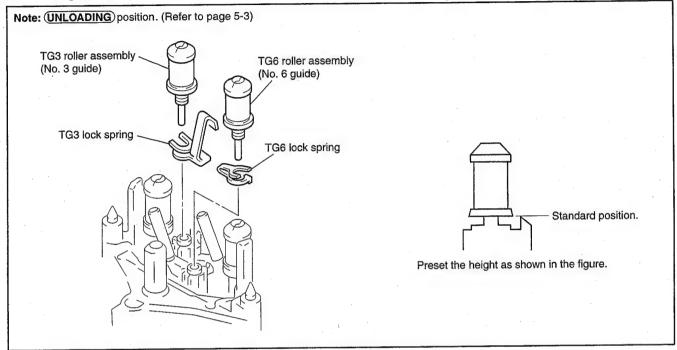


# 2. Attaching

- **1**. Attach the parts in the order of  $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .
- 2. Adjust them according to the flowchart (START-2) on page 5-43.

# 5-18. TG3/6 ROLLER ASSEMBLY AND TG3/6 LOCK SPRING

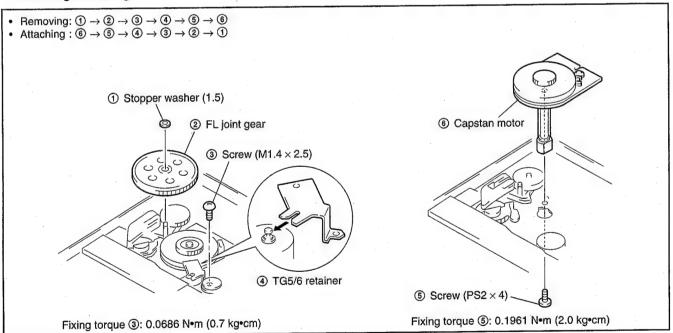
#### · Removing/Attaching



Note: After attaching each part, adjust them according to the flowchart (START-3) on page 5-43.

# 5-19. FL JOINT GEAR, TG5/6 RETAINER AND CAPSTAN MOTOR

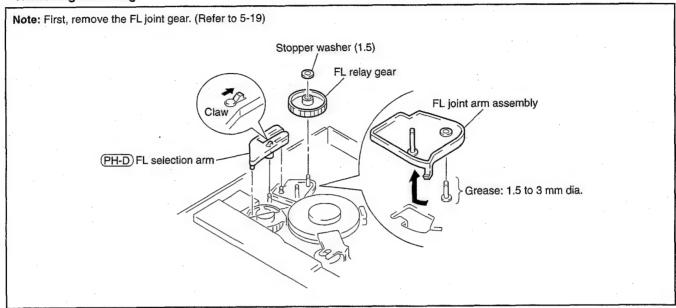
# Removing/Attaching



PH-A : Page 5-6 PH-D , PH-G : Page 5-7

# 5-20. FL SELECTION ARM, FL RELAY GEAR AND FL JOINT ARM ASSEMBLY

#### · Removing/Attaching

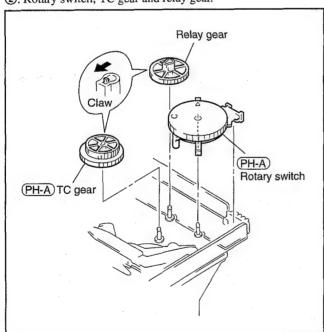


#### 5-21. ROTARY SWITCH, TC GEAR AND RELAY GEAR

1. Removing

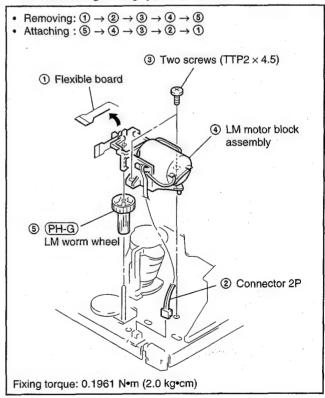
1). Set the **UNLOADING** position. (Refer to page 5-3)

2. Rotary switch, TC gear and relay gear.



2. Attaching

 Remove the LM motor block assembly and LM worm wheel. (To synchronize phase of the pinch driving system (front side) and the loading driving system (back side))

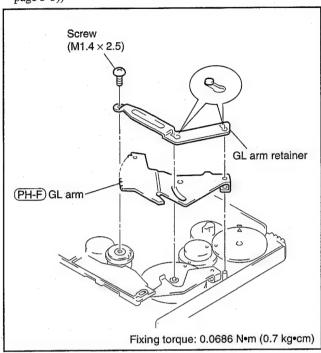


2. Attach the TC gear, relay gear and rotary switch.

3. Attach the LM worm wheel and LM motor block assembly.

## 5-22. GL ARM RETAINER AND GL ARM

Removing/Attaching (<u>UNLOADING</u>) position. (Refer to page 5-3))



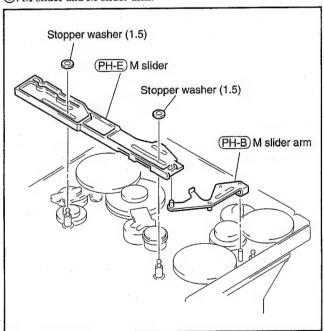
# 5-23. M SLIDER AND M SLIDER ARM

1. Removing

1. Set the **UNLOADING** position. (Refer to page 5-3)

②. GL arm retainer and GL arm. (Refer to 5-22)

3. M slider and M slider arm.



2. Attaching

• Attach the parts in the order of  $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .

 PH-B: Page 5-6
 PH-R: Page 5-10

 PH-D, PH-E: Page 5-7
 PH-V: Page 5-11

### 5-24. TG7 SELECTION ARM, TG7 CAM GEAR AND T CAM GEAR

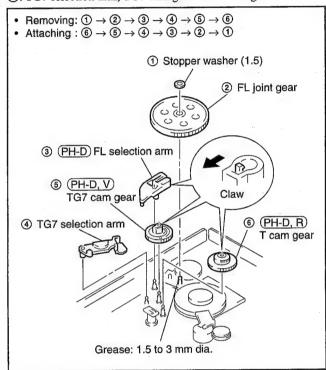
1. Removing

①. Set the **UNLOADING** position. (Refer to page 5-3)

②. GL arm retainer and GL arm. (Refer to 5-22)

3. M slider and M slider arm. (Refer to 5-23)

4. TG7 selection arm, TG7 cam gear and T cam gear.



2. Attaching

**1**. Attach the parts in the order of  $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .



Cam groove on the T cam gear.

Apply the grease (3 mm dia) to of cam groove ( part).

T cam gear (T ratchet driving side)

<u>PH-A</u>: Page 5-6 <u>PH-G</u>: Page 5-7 <u>PH-T</u>, <u>PH-U</u>: Page 5-11

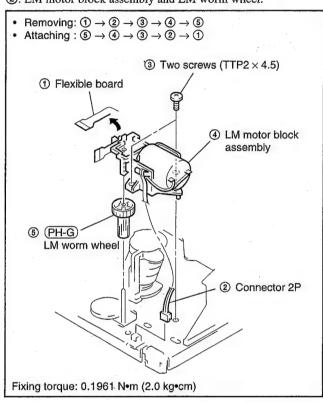
### 5-25. MAIN CAM, TG2 SL ARM ASSEMBLY AND TENSION COIL SPRING (TG2 SL)

The two grooves on one side of the main cam drive the TG2 selection arm and the TG2 load arm assembly. Since it is difficult to attach the main cam, fix the TG2 selection arm and the TG2 load arm assembly with the main cam's phase adjusted correctly (Nearly unloading position (See 3-1. Phase Adjustment @: page 5-6)), so that later mounting work can be performed smoothly. If fixed parts are shifted, follow "3-3. Phase Adjustment ①, @: page 5-11".

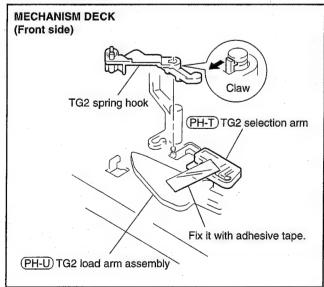
1. Removing

①. Set the **UNLOADING** position. (Refer to page 5-3)

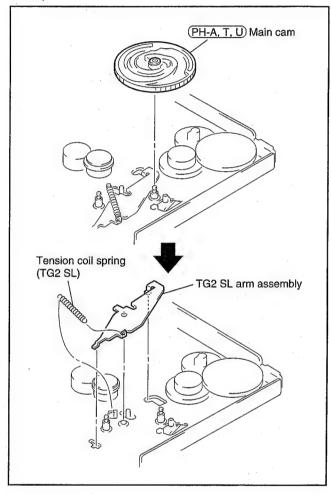
2. LM motor block assembly and LM worm wheel.



- 3. GL arm retainer and GL arm. (Refer to 5-22)
- (4). M slider and M slider arm. (Refer to 5-23)
- TG2 spring hook.



⑥. Main cam, TG2 SL arm assembly and tension coil spring (TG2 SL).



#### 2. Attaching

- **1** Attach the parts in the order of  $\textcircled{1} \rightarrow \textcircled{6} \rightarrow \textcircled{5} \rightarrow \textcircled{4} \rightarrow \textcircled{3} \rightarrow \textcircled{2}$ .
- 2. Adjust them according to the flowchart (START-2) on page 5-43.



Main cam (rear side)

#### Cam groove on the main cam.

Apply the grease (12 mm dia.) to each two of cam groove ( part).

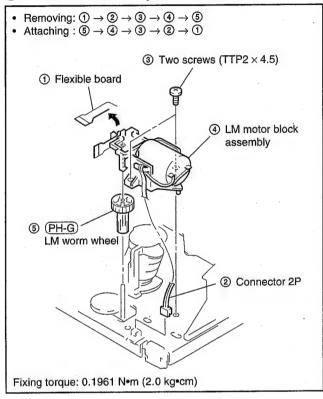
PH-A : Page 5-6 PH-F , PH-G : Page 5-7

# 5-26. TG3/4 ARM BLOCK ASSEMBLY (TG3/4 ARM ASSEMBLY, TG3/4 LIMITER SPRING AND TG3/4 GEAR), TG3/4 BASE BLOCK ASSEMBLY (TG3/4 BASE ASSEMBLY)

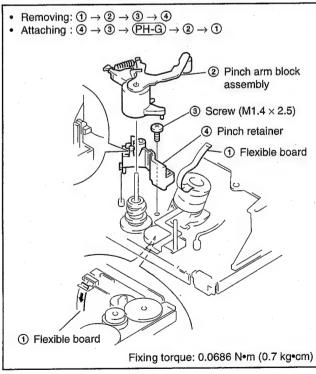
1. Removing

1. Set the UNLOADING position. (Refer to page 5-3)

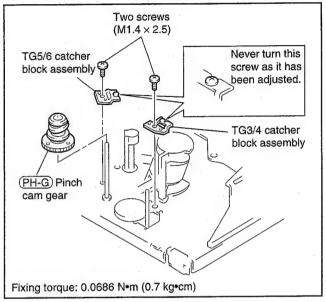
2. LM motor block assembly and LM worm wheel.



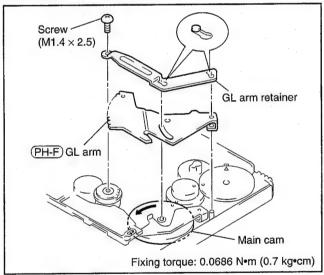
Pinch arm block assembly and pinch retainer.



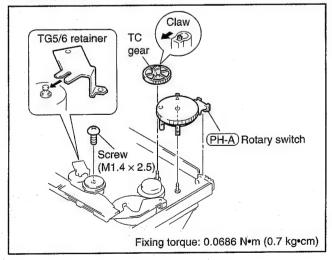
4. TG3/4, TG5/6 catcher block assembly and pinch cam gear.



(5). GL arm retainer and GL arm.

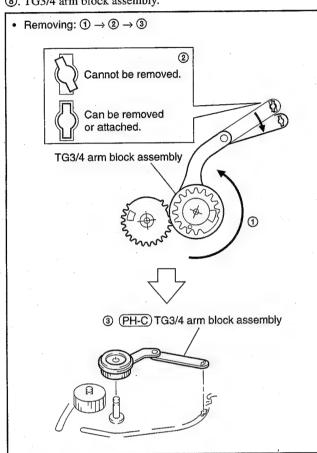


(6). Rotary switch, TC gear and TG5/6 retainer.

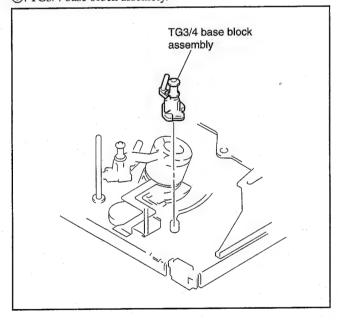


7. Set the **LOADING** position. (Refer to page 5-3)

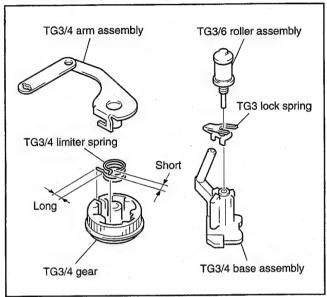
(8). TG3/4 arm block assembly.



TG3/4 base block assembly.



10. TG3/4 arm assembly, TG3/4 limiter spring, TG3/4 gear, TG3/ 6 roller assembly, TG3 lock spring and TG3/4 base assembly.



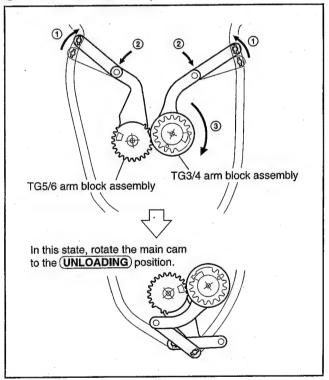
2. Attaching

1. Set the (LOADING) position. (Refer to page 5-3)

2. TG3/4 arm assembly, TG3/4 limiter spring, TG3/4 gear, TG3/ 6 roller assembly, TG3 lock spring and TG3/4 base assembly.

3. TG3/4 base block assembly.

4. TG3/4 arm block assembly.



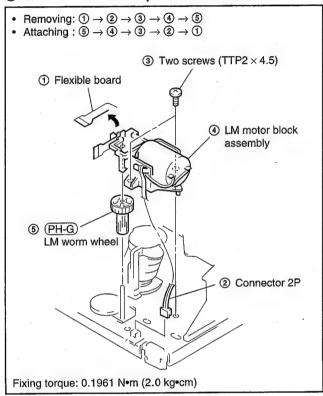
**6**. Attach the parts in the order of  $\textcircled{6} \rightarrow \textcircled{5} \rightarrow \textcircled{4} \rightarrow \textcircled{3} \rightarrow \textcircled{2}$ .

6. Adjust them according to the flowchart (START-3) on page 5-43.

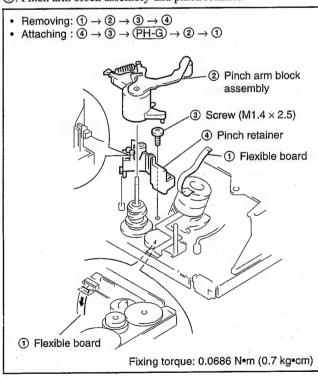
# 5-27. TG5/6 ARM BLOCK ASSEMBLY (TG5/6 ARM ASSEMBLY, TG5/6 LIMITER SPRING AND TG5/6 GEAR), TG5/6 BASE BLOCK ASSEMBLY (TG5/6 BASE ASSEMBLY)

#### 1. Removing

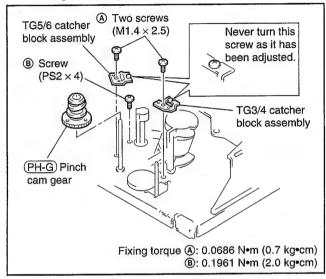
- (1). Set the **UNLOADING** position. (Refer to page 5-3)
- 2. LM motor block assembly and LM worm wheel.



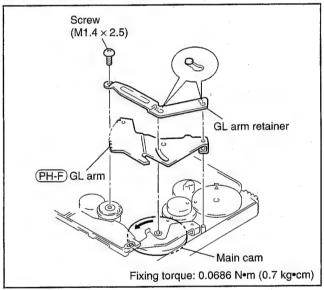
3. Pinch arm block assembly and pinch retainer.



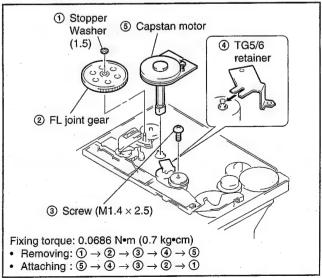
④. TG3/4, TG5/6 catcher block assembly, screw of capstan motor and pinch cam gear.



(5). GL arm retainer and GL arm.

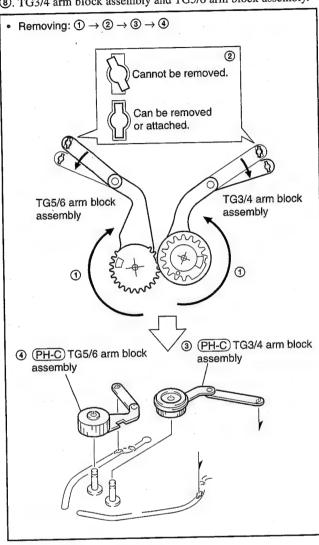


(6). FL joint gear, capstan motor and TG5/6 retainer.

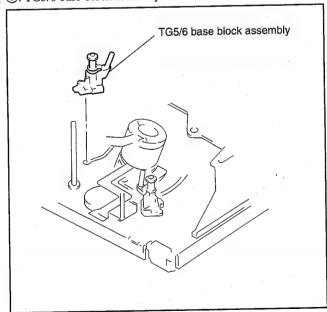


7. Set the **LOADING** position. (Refer to page 5-3)

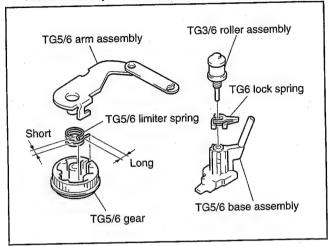
TG3/4 arm block assembly and TG5/6 arm block assembly.



TG5/6 base block assembly.



①. TG5/6 arm assembly, TG5/6 limiter spring, TG5/6 gear, TG3/6 roller assembly, TG6 lock spring and TG5/6 base assembly.



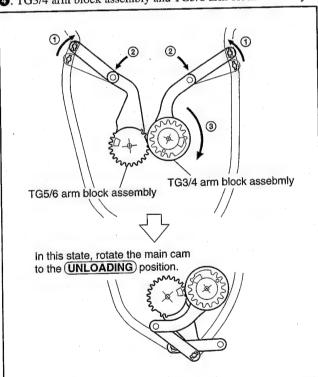
2. Attaching

1. Set the **LOADING** position. (Refer to page 5-3)

2. TG5/6 arm assembly, TG5/6 limiter spring, TG5/6 gear, TG3/6 roller assembly, TG6 lock spring and TG5/6 base assembly.

3. TG5/6 base block assembly.

4. TG3/4 arm block assembly and TG5/6 arm block assembly.

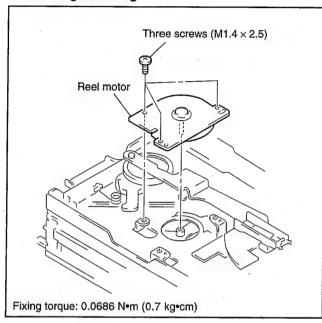


6. Attach the parts in the order of (6) → (5) → (4) → (3) → (2).
6. Adjust them according to the flowchart (START-3) on page

5-43.

#### 5-28. REEL MOTOR

# · Removing/Attaching

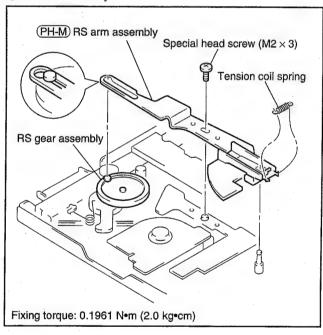


#### 5-29. RS ARM ASSEMBLY

1. Removing

1. Set the S/L cassette position. (Refer to page 5-2)

#### 2. RS arm assembly.



#### 2. Attaching

• Attach the parts in the order of  $\bigcirc$   $\rightarrow$   $\bigcirc$ .

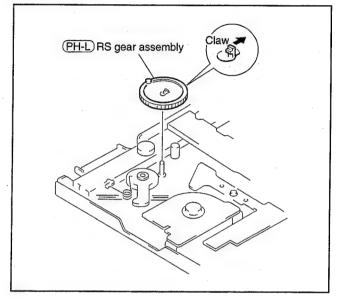
# 5-30. RS GEAR ASSEMBLY, MIC PRESS SPRING AND MIC LEVER

1. Removing

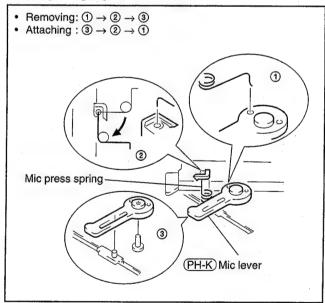
①. Set the **S/L cassette** position. (Refer to page 5-2)

2. RS arm assembly. (Refer to 5-29)

3. RS gear assembly.



Mic press spring and Mic lever.



2. Attaching

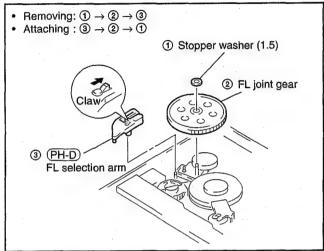
• Attach the parts in the order of  $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ .

PH-D: Page 5-7 PH-J: Page 5-8 PH-K: Page 5-9

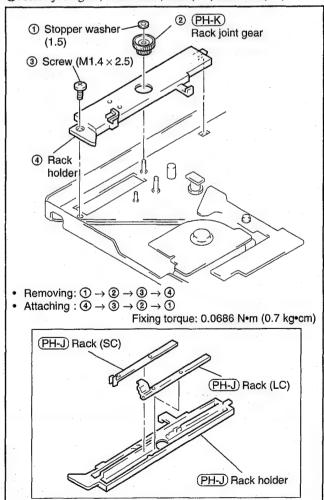
# 5-31. RACK JOINT GEAR, RACK HOLDER, MIC HOLDER, RACK (LC) AND RACK (SC)

# 1. Removing

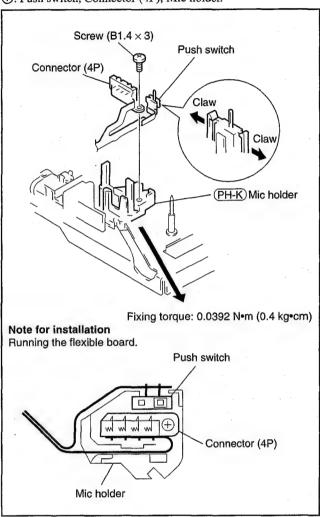
1. FL joint gear, TG7 selection arm.



- 2). Set the S/L cassette position. (Refer to page 5-2)
- 3. RS arm assembly. (Refer to 5-29)
- (4). RS gear assembly, Mic press spring and Mic lever. (Refer to 5-30)
- (5). Rack joint gear, rack holder, rack (LC) and rack (SC).



- 6. FL block assembly. (Refer to page 5-2)
- 7. Push switch, Connector (4P), Mic holder.



2. Attaching

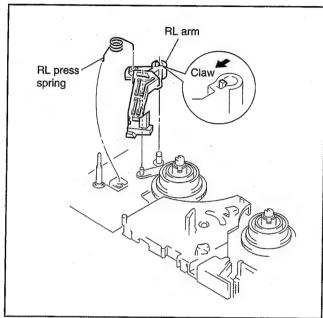
• Attach the parts in the order of  $② \rightarrow ⑦ \rightarrow ⑥ \rightarrow ⑤ \rightarrow ④ \rightarrow ③ \rightarrow ①$ .

# 5-32. PLATE LINK ASSEMBLY

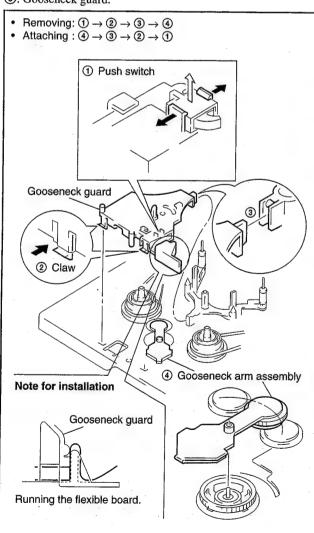
# 1. Removing

①. Set the **L cassette** position. (Refer to page 5-2)

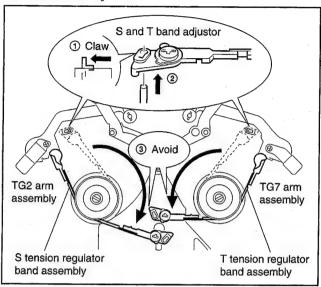
# RL arm.



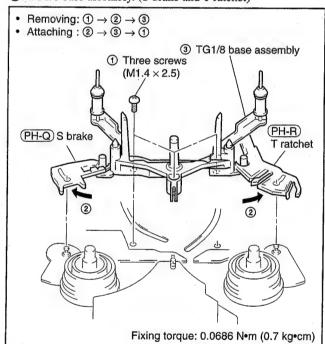
# 3. Gooseneck guard.



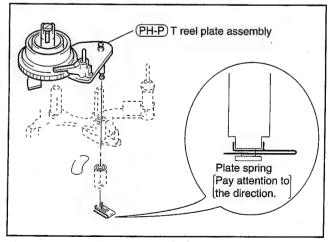
# 4. S and T band adjustor.



# (5). TG1/8 base assembly. (S brake and T ratchet)

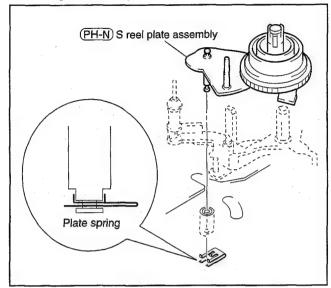


# 6. T reel plate assembly.

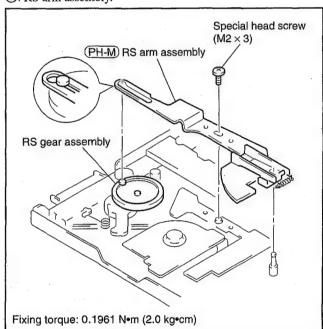


PH-H : Page 5-8 PH-M : Page 5-9 PH-N : Page 5-10

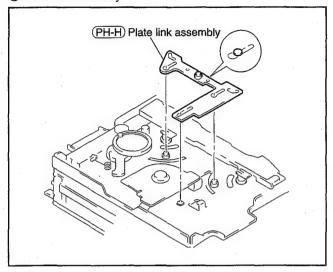
#### 7. S reel plate assembly.



- (8). Set the (S/L cassette) position. (Refer to page 5-2)
- RS arm assembly.



#### 10. Plate link assembly.

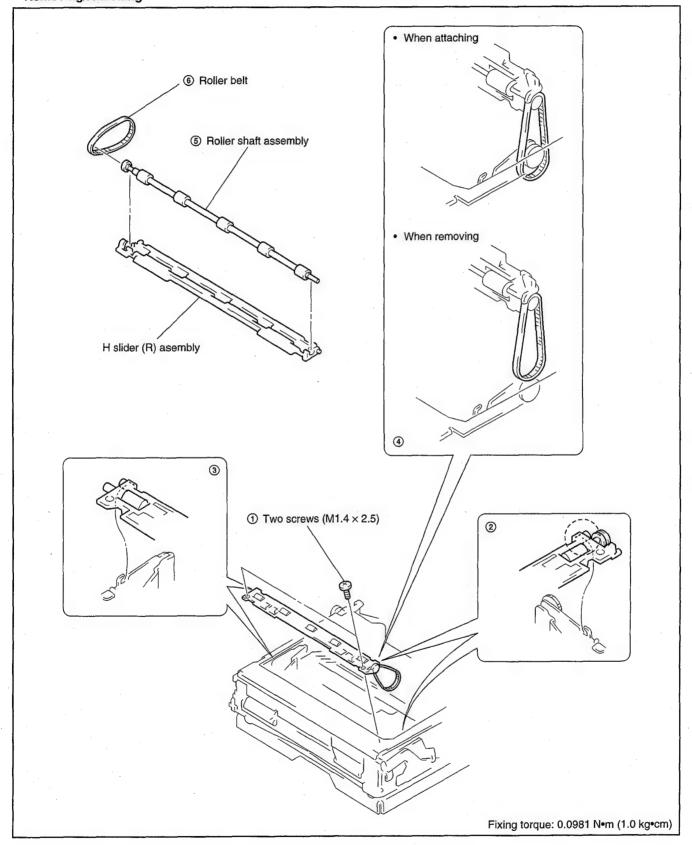


2. Attaching

- ①. Attach the parts in the order of  $(8) \rightarrow (10) \rightarrow (9) \rightarrow (7) \rightarrow (6) \rightarrow (5) \rightarrow (1) \rightarrow (4) \rightarrow (3) \rightarrow (2)$ .
- 2. Adjust them according to the flowchart (START-1) on page 5.43

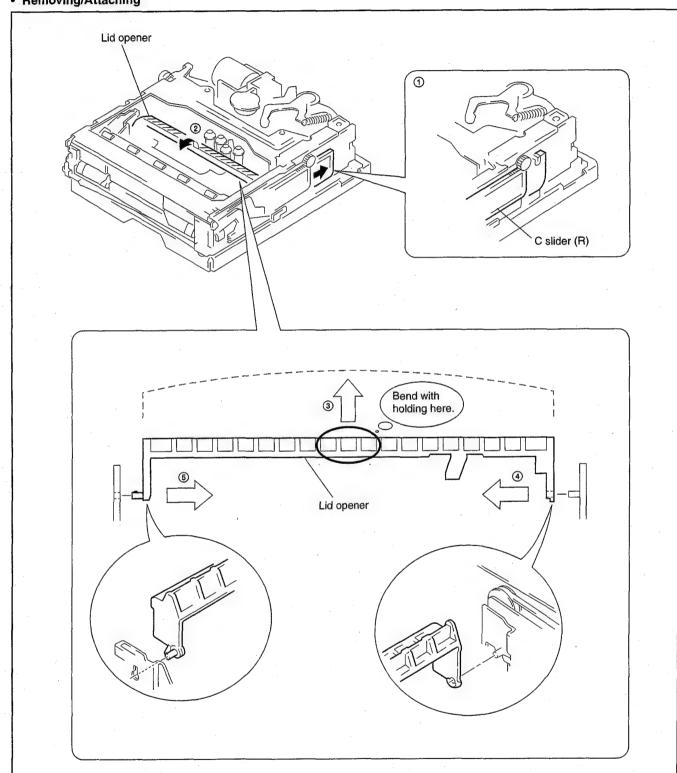
## 5-33. ROLLER SHAFT ASSEMBLY AND ROLLER BELT

### Removing/Attaching



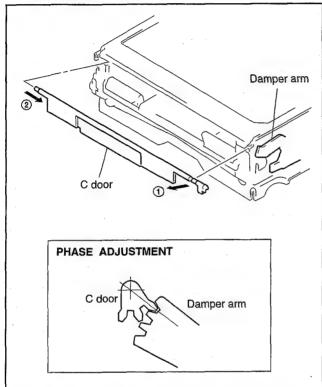
### 5-34. LID OPENER

## Removing/Attaching



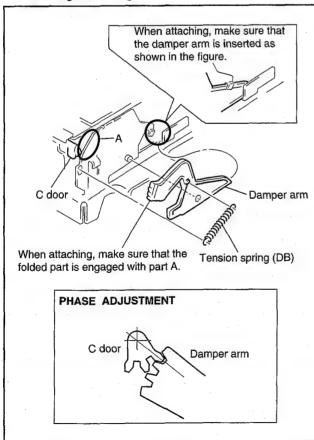
#### 5-35. C DOOR

#### · Removing/Attaching



#### 5-36. DAMPER ARM AND TENSION SPRING (DB)

#### Removing/Attaching

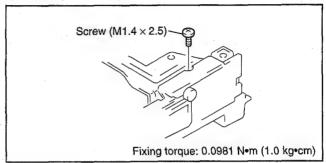


### 5-37. GEAR (A), GEAR (B) AND C WORM

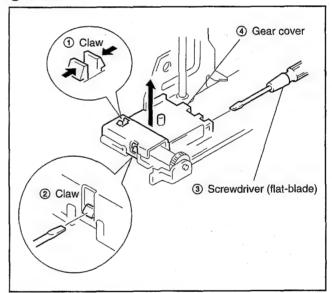
#### 1. Removing

①. FL block assembly. (Refer to page 5-2)

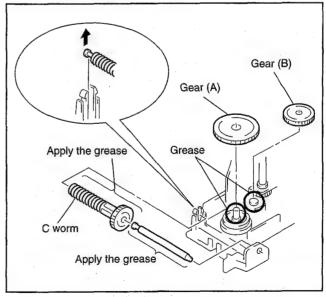
#### ②. Screw. $(M1.4 \times 2.5)$



#### 3. Gear cover.



#### 4. Gear (A), Gear (B) and C worm.

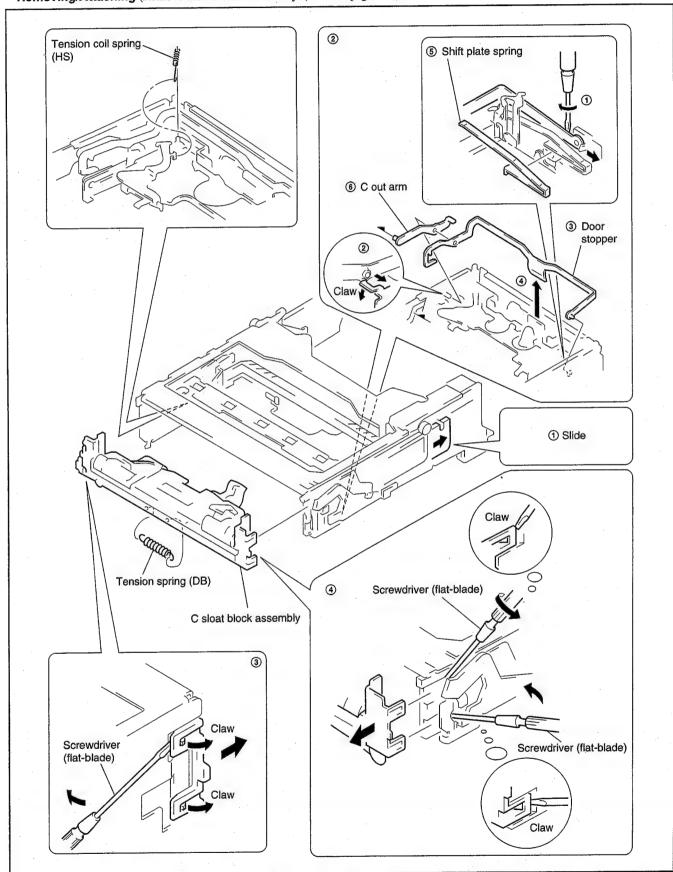


#### 2. Attaching

• Attach the parts in the order of  $\textcircled{4} \rightarrow \textcircled{3} \rightarrow \textcircled{2} \rightarrow \textcircled{1}$ .

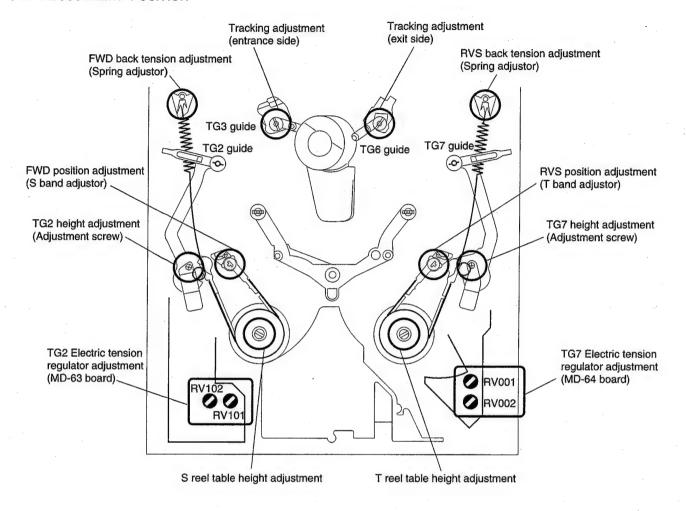
# 5-38. TENSION COIL SPRING (HS), TENSION SPRING (DB), SHIFT PLATE SPRING AND C SLOAT BLOCK ASSEMBLY

• Removing/Attaching (Remove the FL block assembly. (Refer to page 5-2))

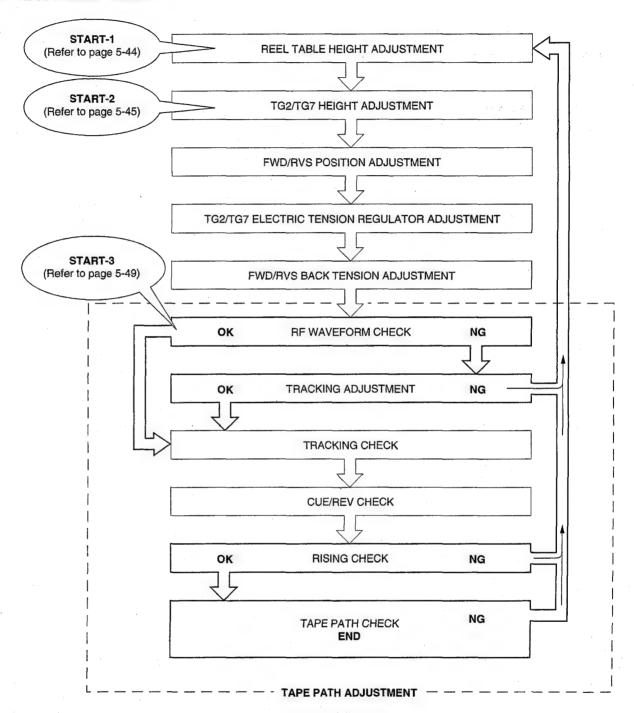


#### 5-1-6. ADJUSTMENTS AND CHECKS

#### 6-1. ADJUSTMENT POSITION



#### 6-2. ADJUSTMENT ORDER



#### 6-3. ADJUSTMENT AND CHECKING METHOD

#### 6-3-1. REEL TABLE HEIGHT ADJUSTMENT

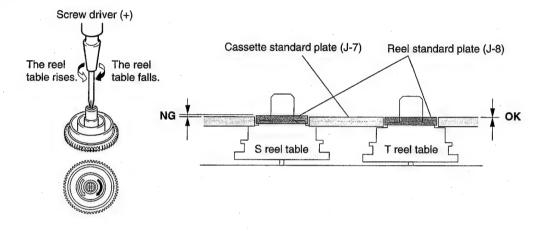
#### 1. Preparation before adjustment

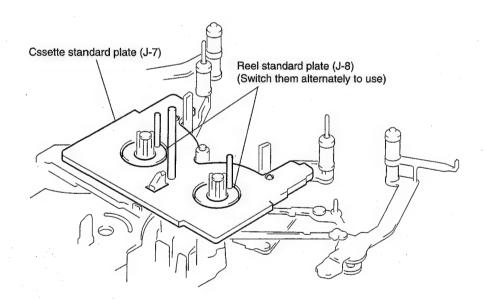
FL block: Remove.

Position: LOADING / S cassette

Jig used: Cassette standard plate (J-7), Reel standard plate (J-8) and screwdriver (+)

#### 2. Adjusting





#### 6-3-2. TG2/TG7 HEIGHT ADJUSTMENT

#### 1. Preparation before adjustment

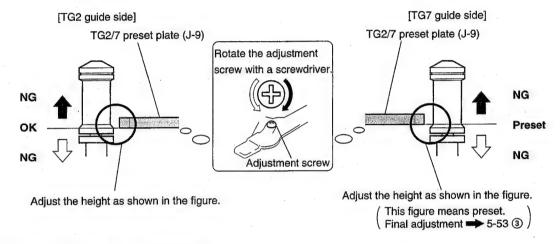
FL block: Remove.

Position : (LOADING) / (S cassette)

Jig used: Cassette standard plate (J-7), TG2/7 preset plate (J-9) and screwdriver

(For attaching jigs, refer to page 5-5)

#### 2. Adjusting



#### 6-3-3. FWD/RVS POSITION ADJUSTMENT

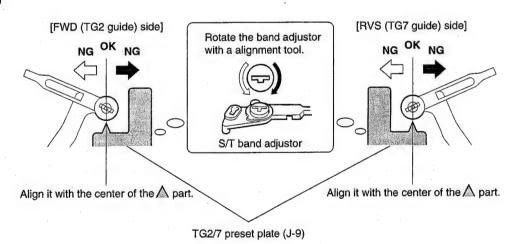
#### 1. Preparation before adjustment

FL block: Remove.

Position: (LOADING (The pinch roller should be stuck))/(S cassette)

Jig used: Cassette standard plate (J-7), TG2/7 preset plate (J-9) and screwdriver for tape path

#### 2. Adjusting



#### 6-3-4. TG2/TG7 ELECTRIC TENSION REGULATOR ADJUSTMENT

#### 1. Preparation before adjustment

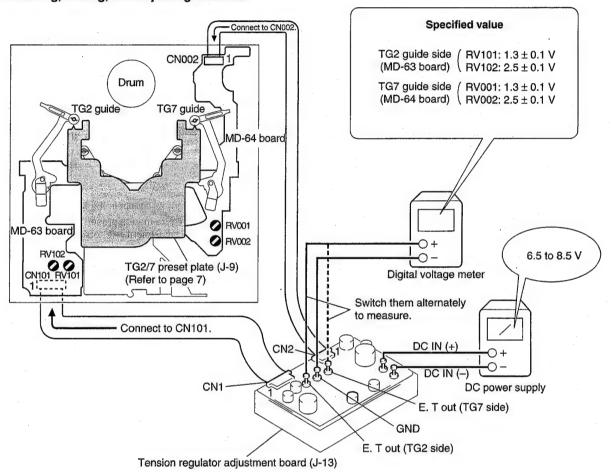
FL block: Remove.

Position: (LOADING (The pinch roller should be stuck)) / (S cassette)

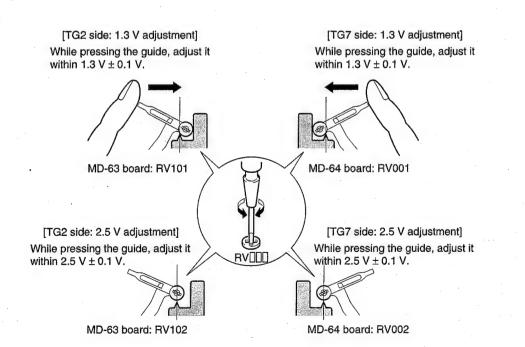
Jig used: Cassette standard plate (J-7), TG2/7 preset plate (J-9) and screwdriver for tape path

(For attaching jigs, refer to page 5-5)

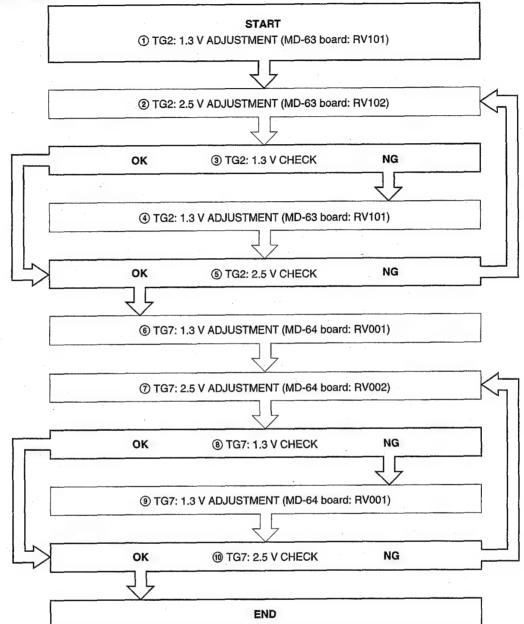
#### 2. Connecting, setting, and adjusting methods



#### 3. Adjusting



#### 4. Adjustment order



#### 6-3-5. FWD/RVS BACK TENSION ADJUSTMENT

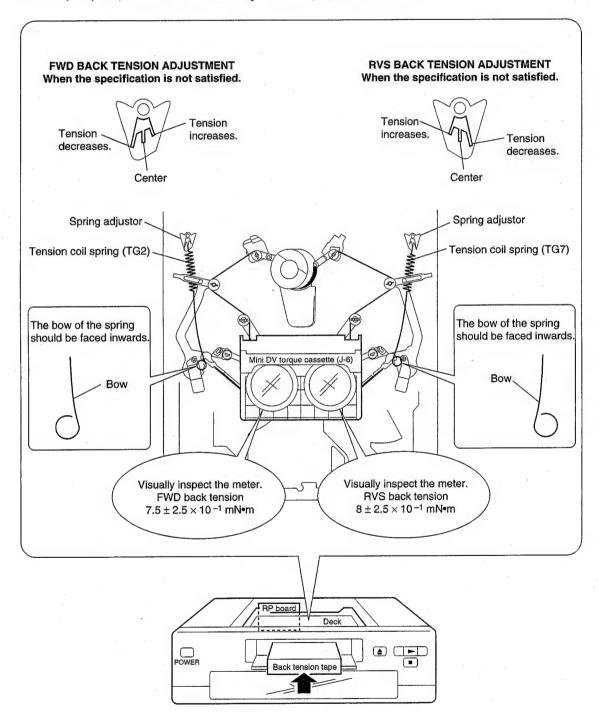
#### 1. Preparation before adjustment

Mechanism deck: Install to the unit.

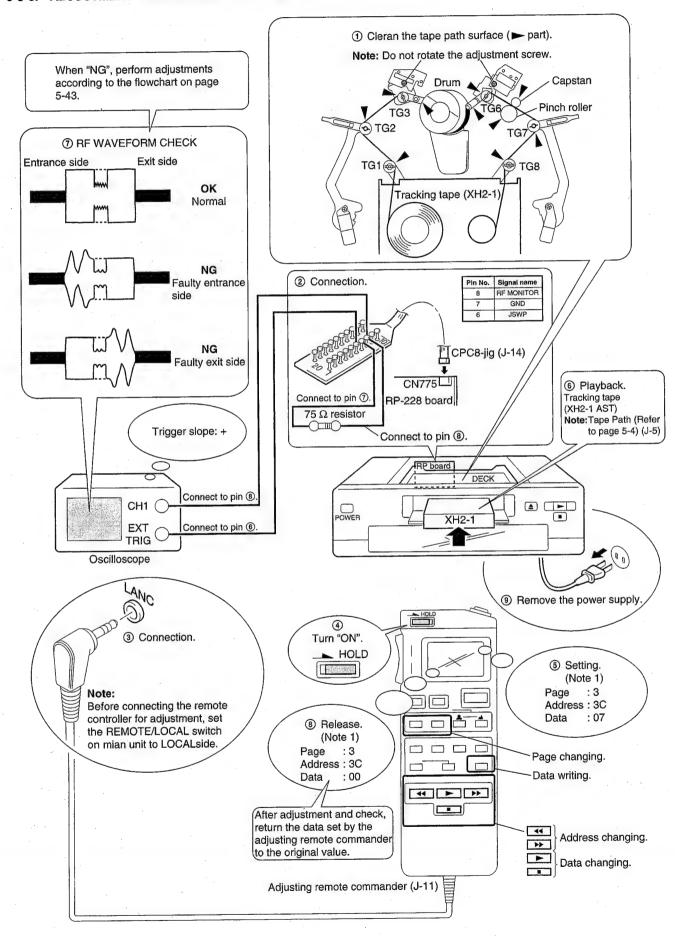
Jig used : Mini DV torque cassette (J-6), pinset (For change the hooking of spring)

#### 2. Adjusting

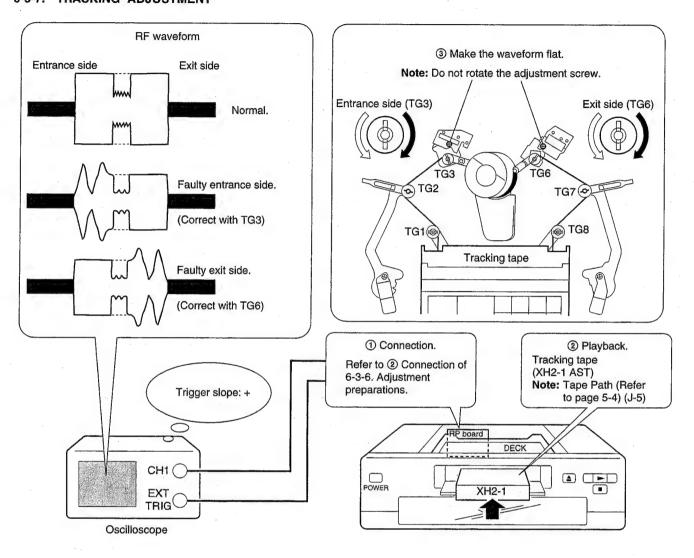
Note: At the FWD (TG2) side, measure the Mini DV torque cassette (J-6) in the FWD mode. At the RVS (TG7) side, measure the Mini DV torque cassette (J-6) in the RVS mode.



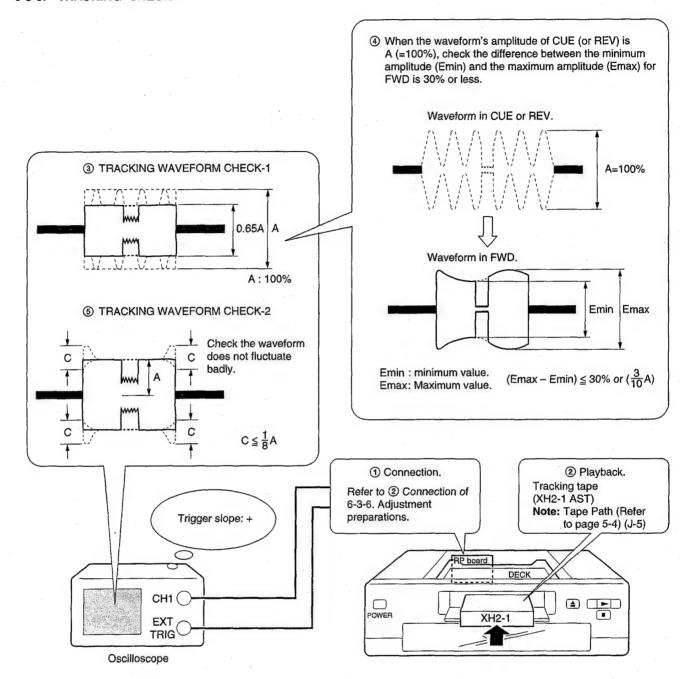
## 6-3-6. ADJUSTMENT PREPARATIONS AND RF WAVEFORM CHECK



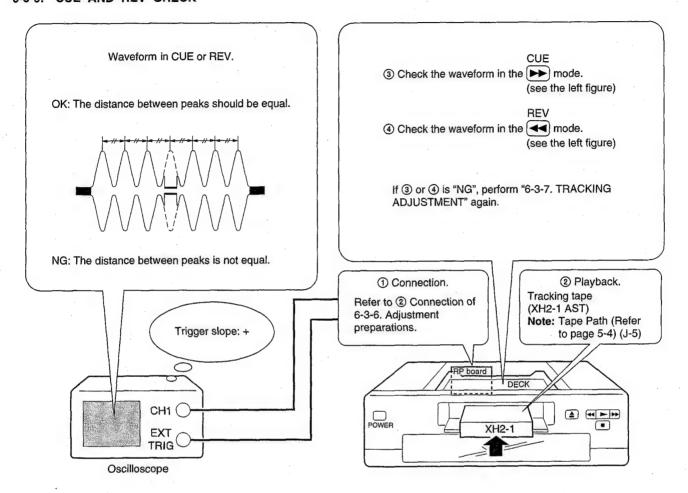
#### 6-3-7. TRACKING ADJUSTMENT



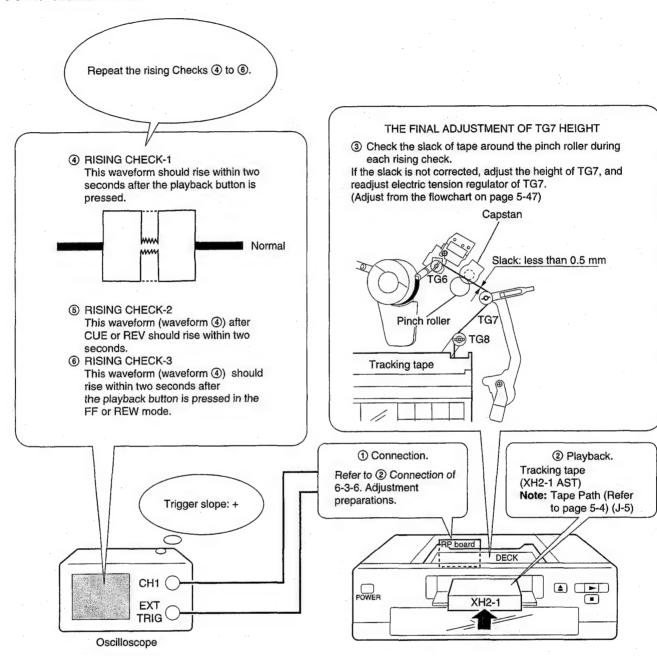
#### 6-3-8. TRACKING CHECK



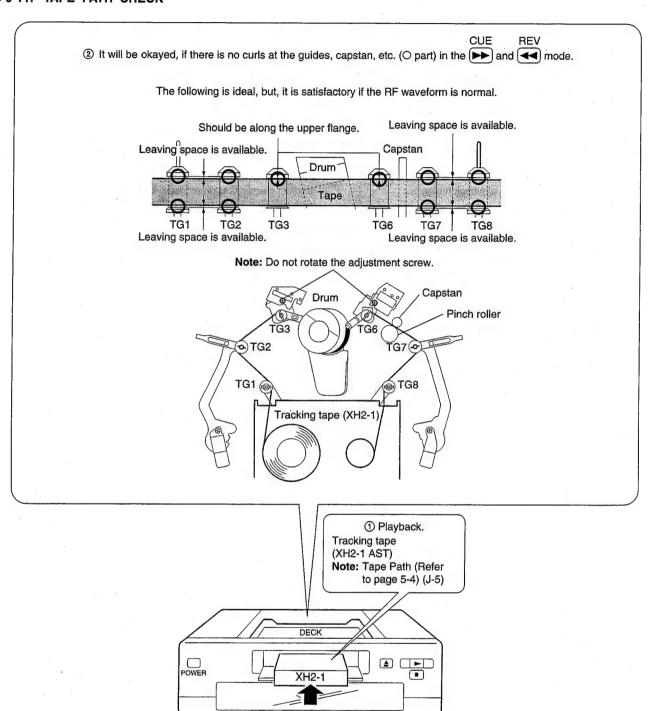
#### 6-3-9. CUE AND REV CHECK



#### 6-3-10. RISING CHECK



#### 6-3-11. TAPE PATH CHECK



3 After adjustment and check, return the data set by the adjusting remote commander to the original value.

#### 5-2. SERVICE MODE

#### 5-2-1. ADJUSTING REMOTE COMMANDER

The adjusting remote commander is used for changing the calculation coefficient in signal processing, EVR data, etc. The adjusting remote commander performs bi-directional communication with the unit using the remote commander signal line (LANC). The resultant data of this bi-directional communication is written in the non-volatile memory.

### 1. Used Adjustment Remote Commander

- 1) With the unit set in STANDBY mode, connect the adjusting remote commander to the remote (LANC) terminal.
- Adjust the HOLD switch of the adjusting remote commander to "HOLD" (SERVICE position).
- 3) Turn on the power with the ON/STANDBY switch of the unit. If it has been properly connected, the LCD on the adjusting remote commander will display as shown in Fig. 5-2-1.

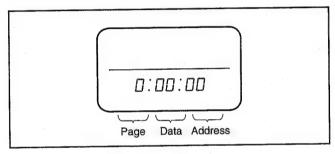


Fig. 5-2-1.

- 4) Operate the adjusting remote commander as follows.
  - Changing the page
     The page increases when the EDIT SEARCH + button is pressed, and decreases when the EDIT SEARCH button is pressed. There are altogether 16 pages, from 0 to F.

Hexadecimal notation	0 1 2 3 4 5 6 7 8 9 A B C D E F
LCD Display	0 123456789A6cdEF
Decimal notation conversion value	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Table 5-2-1.

- Changing the address
   The address increases when the FF (►►) button is pressed, and decreases when the REW (◄◄) button is pressed. There are altogether 256 addresses, from 00 to FF.
- Changing the data (Data setting)
  The data increases when the PLAY (►) button is pressed, and decreases when the STOP (■) button is pressed. There are altogether 256 data, from 00 to FF.
- Writing the adjustment data

  The PAUSE button must be pressed to write the adjustment data (C page, D page and E page) in the nonvolatile memory.

  (The new adjustment data will not be recorded in the nonvolatile memory if this step is not performed.)

## 2. Precautions Upon Using The Adjusting Remote Commander

Mishandling of the adjusting remote commander may erase the correct adjustment data at times. To prevent this, it is recommended that all adjustment data be noted down before beginning adjustments and new adjustment data after each adjustment.

#### 5-2-2. DATA PROCESSING

The calculation of the adjusting remote commander display data (hexadecimal notation) are required for obtaining the adjustment data of some adjustment items. In this case, after converting the hexadecimal notation to decimal notation, calculate and convert the result to hexadecimal notation, and use it as the adjustment data. Table 5-2-2. indicates the hexadecimal notation- the decimal notation, calculation table.

					,					,		,		② ↓		
The lower digits of the hexadecimal notation The upper digits of the	0	1	2	3	4	5	6	7	8	9	Α (7)	В	C	D	E (5)	
hexadecimal notation											(A)	(b)	(=)	(d)	(E)	(
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1
1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	3
2	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	4
3	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	6
4	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	7
5	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	9
6	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	11
7	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	12
8	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	14
9	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	15
A (F)	160	161	162	163 -	164	165	166	167	168	169	170	171	172	173	174	17
B (b)	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	19
C (c)	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	20
D (d)	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	22
E ( <i>E</i> )	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	23
F (F)	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	25

Note: ( ) indicate the adjusting remote control unit display.

(**Example**) In the case that the adjusting remote control unit display are BD (bd).

As the upper digit of the hexadecimal notation is B (b), and the lower digit is D (d), the intersection "189" of the

① and ② in the above table is the decimal notation to be calculated.

Table 5-2-2.

#### 5-2-3. SERVICE MODE

#### 1. Emergence Memory Address

	The same of the sa
Page C	Addresses 30 to 3B

Address	Contents		
30	EMG code when first error occurs		
	Upper: MSW code when shift starts when first error occurs		
32	Lower: MSW code when first error occurs		
33	Lower: MSW code to be moved when first error occurs		
34	EMG code when second error occurs		
Upper: MSW code when shift starts when second er			
- 36	occurs		
	Lower: MSW code when second error occurs		
37	Lower: MSW code to be moved when second error occurs		
38	EMG code when last error occurs		
3A	Upper: MSW code when shift starts when last error occurs		
	Lower: MSW code when last error occurs		
3B	Lower: MSW code to be moved when last error occurs		

When no error occurs in the unit, data 00 is written in the above addresses (30 to 3B). When the first error occurs in the unit, the data corresponding to the error is written in the first emergency address (30 to 33). In the same way, when the second error occurs, the data corresponding to the error is written in the second emergency address (34 to 37).

Finally, when the last error occurs, the data corresponding to the error is written in the last emergency address (38 to 3B). Consequently, addresses 30 to 3B are updated each time errors occur.

Note 1: After completing adjustments, be sure to rewrite the data of addresses 30 to 3B to 00.

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: C, address: 30, set data: 00, and press the PAUSE button of the adjusting remote commander.
- Select page: C, address: 31, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 4) Select page: C, address: 32, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 5) Select page: C, address: 33, set data: 00, and press the PAUSE button of the adjusting remote commander.
- Select page: C, address: 34, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 7) Select page: C, address: 35, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 8) Select page: C, address: 36, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 9) Select page: C, address: 37, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 10) Select page: C, address: 38, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 11) Select page: C, address: 39, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 12) Select page: C, address: 3A, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 13) Select page: C, address: 3B, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 14) Select page: 0, address: 01, set data: 00, and press the PAUSE button of the adjusting remote commander.

#### 1-1. EMG Code (Emergency Code)

Codes corresponding to the errors which occur are written in addresses 30, 34, 38. The type of error indicated by the code are shown in the following table.

Code	Error Type		
. 00	No error (Initial state)		
10	Loading motor time-out during LOAD		
11	Loading motor time-out during UNLOAD		
20	Reel motor error		
22	T reel error		
23	S reel error		
24	Swing error		
32	Error during normal capstan rotation		
33	Cassette compartment LOAD error		
35	Cassette compartment UNLOAD error		
40	FG error during drum start-up		
42	FG error during normal drum rotation .		
50	DEW detection		
52	Wet DEW detection		
60	Electrical tension regulator error		

## 5-3. VIDEO SECTION ADJUSTMENTS

When performing adjustments, refer to the layout diagrams for adjustment related parts on page 5-92.

## 3-1. PREPARATIONS BEFORE ADJUSTMENT

#### 3-1-1. Equipment Used

- 1) TV monitor
- Oscilloscope with 2-phenomenon, 30 MHz band, and delay mode (Unless specified otherwise, use a 10:1 probe)
- 3) Frequency counter
- 4) Digital voltmeter
- 5) Audio generator
- 6) Audio level meter
- 7) Audio distortion meter
- 8) Audio attenuator
- Pattern generator (with VIDEO OUTPUT terminal and external sync function)
- 10) Digital camera recorder

NTSC: DCR-VX1000

PAL : DCR-VX1000E

- 11) Vectorscope
- 12) Alignment tape
  - SW/OL reference (XH2-3)
     Parts code: 8-967-997-11
  - Audio operation check for NTSC (XH5-3)

Parts code: 8-967-997-51

• System operation check for NTSC (XH5-5)

Parts code: 8-967-997-61

- Audio operation check for PAL (XH5-3P)
   Parts code: 8-967-997-55
- System operation check for PAL (XH5-5P)
   Parts code: 8-967-997-66
- BIST check for NTSC (XH5-6)

Parts code: 8-967-997-71

BIST check for PAL (XH5-6P)

Parts code: 8-967-997-76

- 13) Adjusting remote control unit (J-6082-053-B)
- 14) Multi CPC-8 jig (J-6082-388-A). (CN775 of the RP-228 board)
- 15) Extension board
  - For extension between CN101 of the RP-228 board and CN412 of the JC-19 board.
  - For extension between CN102 of the RP-228 board and CN411 of the JC-19 board. (30P, 0.5 mm) (J-6082-270-A)
  - For extension between CN771 of the RP-228 board and drum (M901) (10P, 1 mm) (J-6082-064-A)
  - For extension between CN002 of the CM-56 board and CN501 of the VA-102 board (8P, 1 mm) (J-6082-058-A)
  - For extension between CN006 of the CM-56 board and the reel motor (M904) (15P, 1.25 mm) (J-6902-354-A)
  - For extension between CN001 of the CM-56 board and CN101 of the MD-63 board (16P, 1 mm) (J-6082-020-A)

NTAC: DSR-40 PAL: DSR-40P

## 3-1-2. Connection of Equipment

According to the specification for the input terminal (S VIDEO input, VIDEO input, or DV input), connect measuring equipment as shown in Fig. 5-3-1, and make adjustment.

The input terminal is specified in ( ) of the signal column. Any input terminal can be used unless otherwise specified. To switch between S VIDEO INPUT and VIDEO INPUT, use the VIDEO SELECT button on the front panel.

- Note 1: In adjustments specifying for the S VIDEO input to be used, using the VIDEO input would disable the product specifications of this unit from being satisfied. Always use the input signal specified.
- Note 2: If adjustments are used with the VTR with the S video output terminal as the signal source, the performance of this unit may be affected by the VTR. Use a pattern generator with a Y/C separator terminal as much as possible.

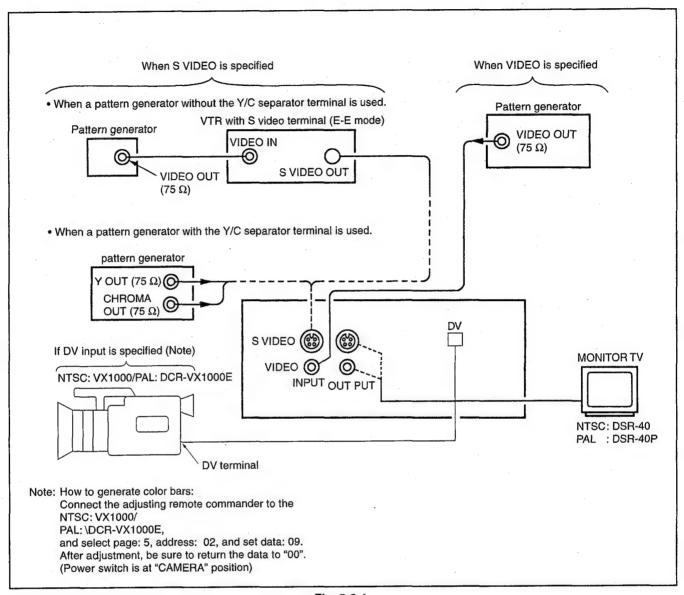


Fig. 5-3-1.

#### 3-1-3. Adjusting Connectors (RP-228 Board CN775)

Some of the adjusting points of the video section are concentrated at CN775 of the RP-228 board. Connect the instruments via the multi CPC-8 jig (J-6082-388-A)

Pin No.	Signal Name	Pin No.	Signal Name
1	TCK	2	TMS
3	TDI	4	GND
5	TRACK ID	6	JSWP
. 7	GND	8	RF MONITOR
9	VCC2	10	AGC IN
11	VCC1	12	EQ IN
13	LOCK	14	REF OUT
15	ENV OUT	16	GND
17	TDO	18	C1ERP
19	FLTD	20	GND

Table 5-3-1.

#### 3-1-4. Checking the Input Signals

Because the video signal obtained from the pattern generator is used as the adjustment signal for adjustments, the video output signal must satisfy the given specifications.

#### 1. S VIDEO Input

>: NTSC model

Connect the oscilloscope to the Y signal terminal of the S VIDEO input terminal, and check that the sync signal of the Y signal is approximately <0.286> [0.30] V and that the amplitude of the video section is approximately <0.714> [0.70] V. (When a VTR with the S VIDEO output terminal is used, also check that the chroma signal and burst signal have not remained)

Connect the oscilloscope to the chroma signal terminal of the S VIDEO input terminal, and check that the burst signal amplitude of the chroma signal is approximately <0.286> [0.30] V and flat, and that the red signal amplitude of the chroma signal is approximately <0.66> [0.67] V. The Y and chroma signals used in the adjustment are shown in Fig. 5-3-2.

2. VIDEO Input

Connect the oscilloscope to the VIDEO input terminal, and check that the sync signal amplitude of the video signal is approximately <0.286> [0.30] V, the amplitude of the video section is approximately <0.714> [0.70] V, the amplitude of the burst signal is approximately <0.286> [0.30] V and flat, and that the red signal amplitude of the chroma signal is approximately <0.66> [0.67] V. The video signal (color bar) used for adjustments is shown in Fig. 5.3.3

< >: NTSC model

[ ]: PAL model

NTAC : DSR-40 PAL : DSR-40P

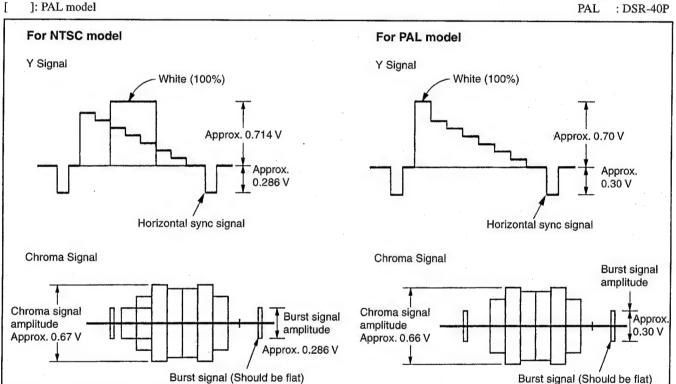


Fig. 5-3-2. Color Bar Signal of Pattern Generator

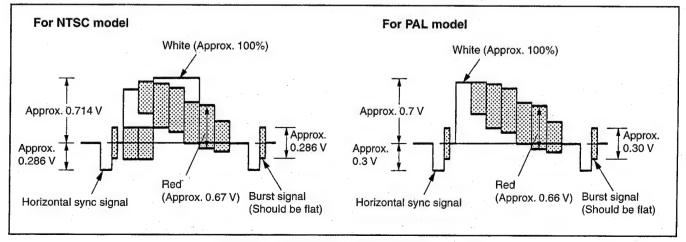


Fig. 5-3-3. Color Bar Signal of Pattern Generator

#### 3-1-5. Adjustment Tapes

Use the alignment tapes shown in the following table. Use tapes specified in the signal column of each adjustment.

Name	Use
SW/OL standard (XH2-3)	Switching position adjustment
Audio operation check (XH5-3 (NTSC), XH5-3P (PAL))	Audio system adjustment
System operation check (XH5-5 (NTSC), XH5-5P (PAL))	Operation check
BIST check (XH5-6 (NTSC), XH5-6P (PAL))	BIST check

Table 5-3-2.

Fig. 5-3-4. shows the 75% color bar signals recorded on the alignment tape for Audio Operation Check (NTSC).

**Note:** Measure with video terminal (Terminated at 75  $\Omega$ )

PAL : DSR-40P For NTSC model White (100%) White (75%) Magenta Blue Burst signal Red 0.714 V (75%)Q Black 0.286 V White Color bar signal waveform (100%)Horizontal sync signal Color bar Pttern For PAL model White (100%) Magenta Yellow Cyan Green Blue Red (100%)Burst signal Horizontal sync signal Color bar Pttern Color bar signal waveform

NTAC: DSR-40

Fig. 5-3-4. Color Bar Signal of Alignment Tapes

#### 3-1-6. Input/ Output Level and Impedance

**INPUT** 

S VIDEO: Mini DIN 4-pin

Luminance signal: 1 Vp-p (75 ohms unbalanced) Chrominance signal: 0.286 Vp-p (DSR-40)

0.3 Vp-p (DSR-40P) (75 ohms unbalanced)

VIDEO: BNC type

Input signal: 1 Vp-p (75 ohms unbalanced)

AUDIO: Phono jack (L, R)
Input level: 2 Vrms (full bit)

Input impedance: more than 47 kohms

MONITOR VIDEO: BNC type

Output signal: 1 Vp-p (75 ohms unbalanced)

AUDIO CH1/3: Phono jack Output level: 2 Vrms (full bit)

Output impedance: less than 10 kohms

AUDIO CH2/4: Phono jack Output level: 2 Vrms (full bit)

Output impedance: less than 10 kohms

OUTPUT

S VIDEO: Mini DIN 4-pin

Luminance signal: 1 Vp-p (75 ohms unbalanced)

Chrominance signal: 0.286 Vp-p (DSR-40) 0.3 Vp-p (DSR-40P) (75 ohms unbalanced)

VIDEO: BNC type

1 Vp-p (75 ohms unbalanced)

Y: BNC type

1 Vp-p (75 ohms unbalanced)

R-Y: BNC type

0.7 Vp-p (75 ohms unbalanced)

(DSR-40: 75%, color bar/DSR-40P: 100%, color bar)

bar)

B-Y: BNC type

0.7 Vp-p (75 ohms unbalanced)

(DSR-40: 75%, color bar/DSR-40P: 100% color

bar)

AUDIO CH1/3: XLR 3-pin, male, +4 dBu, 600 ohms

loading, balanced.

AUDIO CH2/4: XLR 3-pin, male, +4 dBu, 600 ohms loading, balanced.

REF.VIDEO INPUT

BNC type

1 Vp-p (75 ohms unbalanced)

#### 3-2. POWER SUPPLY SYSTEM ADJUSTMENT

#### Power Supply Voltage Check, Power Block (U-2 Board)

Mode Playback   Measuring Instrument Digital voltmeter   UNSW6V Check pin ① of CN11   Specified Value 6.0 ± 0.5 Vdc   UNSW3.1V Check pin ② of CN11   Measuring Point pin ② of CN11   Specified Value 3.1 ± 0.2 Vdc   VIDEO5V, AUDIO5V Check Measuring Point   Measuring Point pin ③, ⑦ of CN11   Specified Value 5.0 ± 0.12 Vdc   SW3.1V Check Measuring Point   Measuring Point pin ④ of CN11   Specified Value 3.1 ± 0.1 Vdc   VIDEO-5V, AUDIO-5V Check Measuring Point   Measuring Point pin ⑥, ⑨ of CN11   Specified Value -5.0 ± 0.12 Vdc   SW5V Check Measuring Point pin ③ of CN10   Specified Value 5.0 ± 0.12 Vdc   DRUM6V Check Measuring Point pin ④ of CN10   Specified Value 6.0 ± 0.5 Vdc   MOTOR14V Check Measuring Point pin ⑥ of CN10   Specified Value pin ⑥ of CN10   Specified Value 14.0 ± 2 Vdc			
UNSW6V Check  Measuring Point pin ① of CN11  Specified Value 6.0 ± 0.5 Vdc  UNSW3.1V Check  Measuring Point pin ② of CN11  Specified Value 3.1 ± 0.2 Vdc  VIDEO5V, AUDIO5V Check  Measuring Point pin ③, ⑦ of CN11  Specified Value 5.0 ± 0.12 Vdc  SW3.1V Check  Measuring Point pin ④ of CN11  Specified Value 3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point pin ⑥, ⑨ of CN11  Specified Value -5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ⑥, ⑨ of CN11  Specified Value 5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ③ of CN10  Specified Value 5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point pin ③ of CN10  Specified Value 6.0 ± 0.5 Vdc  MOTOR14V Check  Measuring Point pin ⑥ of CN10	Mode	Playback	
Measuring Point pin ① of CN11  Specified Value 6.0 ± 0.5 Vdc  UNSW3.1V Check  Measuring Point pin ② of CN11  Specified Value 3.1 ± 0.2 Vdc  VIDEO5V, AUDIO5V Check  Measuring Point pin ③, ⑦ of CN11  Specified Value 5.0 ± 0.12 Vdc  SW3.1V Check  Measuring Point pin ④ of CN11  Specified Value 3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point pin ⑥, ⑨ of CN11  Specified Value −5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ⑥, ⑨ of CN10  Specified Value 5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ③ of CN10  Specified Value 5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point pin ④ of CN10  Specified Value 6.0 ± 0.5 Vdc  MOTOR14V Check  Measuring Point pin ⑥ of CN10	Measuring Instrument	Digital voltmeter	
Specified Value  UNSW3.1V Check  Measuring Point  Specified Value  3.1 ± 0.2 Vdc  VIDEO5V, AUDIO5V Check  Measuring Point  Specified Value  5.0 ± 0.12 Vdc  SW3.1V Check  Measuring Point  Specified Value  3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point  Specified Value  3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point  Specified Value  -5.0 ± 0.12 Vdc  SW5V Check  Measuring Point  Specified Value  5.0 ± 0.12 Vdc  SW5V Check  Measuring Point  Specified Value  5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point  Specified Value  5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point  Specified Value  5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point  Specified Value  6.0 ± 0.5 Vdc  MOTOR14V Check  Measuring Point  pin ⑥ of CN10	UNSW6V Check		
UNSW3.1V Check  Measuring Point pin ② of CN11  Specified Value 3.1 ± 0.2 Vdc  VIDEO5V, AUDIO5V Check  Measuring Point pin ③, ⑦ of CN11  Specified Value 5.0 ± 0.12 Vdc  SW3.1V Check  Measuring Point pin ④ of CN11  Specified Value 3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point pin ⑥, ⑨ of CN11  Specified Value -5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ③ of CN10  Specified Value 5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point pin ③ of CN10  Specified Value 6.0 ± 0.5 Vdc  MOTOR14V Check  Measuring Point pin ⑥ of CN10	Measuring Point	pin ① of CN11	
Measuring Point pin ② of CN11  Specified Value 3.1 ± 0.2 Vdc  VIDEO5V, AUDIO5V Check  Measuring Point pin ③, ⑦ of CN11  Specified Value 5.0 ± 0.12 Vdc  SW3.1V Check  Measuring Point pin ④ of CN11  Specified Value 3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point pin ⑥, ⑨ of CN11  Specified Value -5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ③ of CN10  Specified Value 5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point pin ③ of CN10  Specified Value 5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point pin ④ of CN10  Specified Value 6.0 ± 0.5 Vdc  MOTOR14V Check  Measuring Point pin ⑥ of CN10	Specified Value	$6.0 \pm 0.5 \mathrm{Vdc}$	
Specified Value         3.1 ± 0.2 Vdc           VIDEO5V, AUDIO5V Check         pin ③, ⑦ of CN11           Specified Value         5.0 ± 0.12 Vdc           SW3.1V Check         pin ④ of CN11           Measuring Point         pin ④ of CN11           Specified Value         3.1 ± 0.1 Vdc           VIDEO-5V, AUDIO-5V Check         Measuring Point           Measuring Point         pin ⑥, ⑨ of CN11           Specified Value         -5.0 ± 0.12 Vdc           SW5V Check         Measuring Point         pin ⑥ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Measuring Point         pin ⑥ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Measuring Point         pin ⑥ of CN10	UNSW3.1V Check		
VIDEO5V, AUDIO5V Check  Measuring Point pin ③, ⑦ of CN11  Specified Value 5.0 ± 0.12 Vdc  SW3.1V Check  Measuring Point pin ④ of CN11  Specified Value 3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point pin ⑥, ⑨ of CN11  Specified Value -5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ③ of CN10  Specified Value 5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point pin ④ of CN10  Specified Value 6.0 ± 0.5 Vdc  MOTOR14V Check  Measuring Point pin ⑥ of CN10	Measuring Point	pin ② of CN11	
Measuring Point         pin ③, ⑦ of CN11           Specified Value         5.0 ± 0.12 Vdc           SW3.1V Check         pin ④ of CN11           Measuring Point         pin ④ of CN11           Specified Value         3.1 ± 0.1 Vdc           VIDEO-5V, AUDIO-5V Check         Measuring Point           Measuring Point         pin ⑥, ⑨ of CN11           Specified Value         -5.0 ± 0.12 Vdc           SW5V Check         Measuring Point         pin ③ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Measuring Point         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Measuring Point         pin ⑥ of CN10	Specified Value	$3.1 \pm 0.2 \mathrm{Vdc}$	
Specified Value         5.0 ± 0.12 Vdc           SW3.1V Check         pin ④ of CN11           Measuring Point         pin ④ of CN11           Specified Value         3.1 ± 0.1 Vdc           VIDEO-5V, AUDIO-5V Check         Measuring Point           Measuring Point         pin ⑥, ⑨ of CN11           Specified Value         -5.0 ± 0.12 Vdc           SW5V Check         Measuring Point         pin ⑥ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Measuring Point         pin ⑥ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Measuring Point         pin ⑥ of CN10	VIDEO5V, AUDIO5V	Check	
SW3.1V Check  Measuring Point pin ④ of CN11  Specified Value 3.1 ± 0.1 Vdc  VIDEO-5V, AUDIO-5V Check  Measuring Point pin ⑥, ⑨ of CN11  Specified Value -5.0 ± 0.12 Vdc  SW5V Check  Measuring Point pin ⑨ of CN10  Specified Value 5.0 ± 0.12 Vdc  DRUM6V Check  Measuring Point pin ⑨ of CN10  Specified Value 6.0 ± 0.5 Vdc  MOTOR14V Check  Measuring Point pin ⑥ of CN10	Measuring Point	pin ③, ⑦ of CN11	
Measuring Point         pin ④ of CN11           Specified Value         3.1 ± 0.1 Vdc           VIDEO-5V, AUDIO-5V Check           Measuring Point         pin ⑥, ⑨ of CN11           Specified Value         -5.0 ± 0.12 Vdc           SW5V Check         Measuring Point         pin ⑥ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Measuring Point         pin ⑥ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Measuring Point         pin ⑥ of CN10	Specified Value	$5.0 \pm 0.12  \text{Vdc}$	
Specified Value         3.1 ± 0.1 Vdc           VIDEO-5V, AUDIO-5V Check           Measuring Point         pin ⑥, ⑨ of CN11           Specified Value         -5.0 ± 0.12 Vdc           SW5V Check         pin ③ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Measuring Point         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Measuring Point         pin ⑥ of CN10	SW3.1V Check		
VIDEO-5V, AUDIO-5V Check           Measuring Point         pin ⑥, ⑨ of CN11           Specified Value         -5.0 ± 0.12 Vdc           SW5V Check         Measuring Point         pin ③ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Measuring Point         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Measuring Point         pin ⑥ of CN10	Measuring Point	pin ④ of CN11	
Measuring Point         pin ⑥, ⑨ of CN11           Specified Value         −5.0 ± 0.12 Vdc           SW5V Check         pin ③ of CN10           Measuring Point         pin ③ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         pin ⑥ of CN10           Measuring Point         pin ⑥ of CN10	Specified Value	$3.1 \pm 0.1  \text{Vdc}$	
Specified Value         -5.0 ± 0.12 Vdc           SW5V Check         pin ③ of CN10           Measuring Point         pin ③ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         pin ⑥ of CN10	VIDEO-5V, AUDIO-5	V Check	
SW5V Check         pin ③ of CN10           Measuring Point         pin ③ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         pin ④ of CN10           Measuring Point         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         pin ⑥ of CN10	Measuring Point	pin 6, 9 of CN11	
Measuring Point         pin ③ of CN10           Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Point           Measuring Point         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Point ⑥ of CN10	Specified Value	$-5.0 \pm 0.12 \mathrm{Vdc}$	
Specified Value         5.0 ± 0.12 Vdc           DRUM6V Check         Point           Measuring Point         pin ⓓ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         Point ⓓ of CN10	SW5V Check		
DRUM6V Check           Measuring Point         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         pin ⑥ of CN10	Measuring Point	pin 3 of CN10	
Measuring Point         pin ④ of CN10           Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         pin ⑥ of CN10	Specified Value	5.0 ± 0.12 Vdc	
Specified Value         6.0 ± 0.5 Vdc           MOTOR14V Check         pin (§) of CN10	DRUM6V Check		
MOTOR14V Check  Measuring Point pin (6) of CN10	Measuring Point	pin ④ of CN10	
Measuring Point pin ® of CN10	Specified Value	$6.0 \pm 0.5  \text{Vdc}$	
	MOTOR14V Check		
Specified Value 14.0 ± 2 Vdc	Measuring Point	pin ® of CN10	
*	Specified Value	14.0 ± 2 Vdc	

#### Video/Audio Block Power Supply Voltage Check, Power Block (U-2 Board)

Mode	Playback
Measuring Instrument	Digital voltmeter
UNSW6V Check	
Measuring Point	pin ②, ③ of CN12
Specified Value	$6.0 \pm 0.5  \text{Vdc}$
UNSW3.1V Check	
Measuring Point	pin ④ of CN12
Specified Value	$3.1 \pm 0.2  \text{Vdc}$
UNSW-9V Check	
Measuring Point	pin ⑦ of CN12
Specified Value	$-9 \pm 0.5  \text{Vdc}$
UNSW14V Check	
Measuring Point	pin ® of CN12
Specified Value	14 ± 2.0 Vdc
SW12V Check	
Measuring Point	pin (9) of CN12
Specified Value	12.0 ± 1 Vdc
SW12V Check	
Measuring Point	pin ① of CN12
Specified Value	$-12.0 \pm 1$ Vdc

#### 3-3. SYSTEM CONTROL SYSTEM ADJUSTMENT

#### 1. Initializing the C, D, E Page Data

Note 1: If "Initializing the C, D, E Page Data" is performed, all data of the C page, D page and E page will be initialized.

Note 2: If the C, D, E page data has been initialized, "Modification of C, D, E page Data" and all adjustments need to be performed again.

Mode	E-E
Signal	Arbitrary
Adjustment Page	С
Adjustment Address	00 to 6F
Adjustment Page	D
Adjustment Address	00 to 4F
Adjustment Page	Е
Adjustment Address	00 to 3B

## 2. Input of C page Initial Data Input method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: 4, address: 02, set data: 01, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 4, address: 02, and confirm that the data change in the order of "01"  $\rightarrow$  "03"  $\rightarrow$  "05"  $\rightarrow$  "00".
- 4) Modify the C page data. (Refer to C page address)

## 3. Input of D page Initial Data Input method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 2, address: 00, set data: 2D, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 2, address: 01, set data: 2D, and press the PAUSE button of the adjusting remote commander.
- 4) Select page: 2, address: 02, and confirm that the data is "01".
- 5) Modify the D page data. (Refer to D page address)

## 4. Input of E page Initial Data Input method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 5, address: 00, set data: 2D, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 5, address: 01, set data: 2D, and press the PAUSE button of the adjusting remote commander.
- 4) Select page: 5, address: 02, and confirm that the data is "01".
- 5) Modify the E page data. (Refer to E page address)

#### 5. Modification of C, D, E, Page Data

If the C, D, E page data has been initialized, change the data of the "Fixed data-2" address shown in the following tables by manual input.

#### **Modifying Method:**

- 1) Before changing the data, select page: 0, address: 01, and set data: 01.
- 2) New data for changing are not shown in the tables because they are different in destination. When changing the data, copy the data built in the same model.

**Note:** If copy the data built in the different model, this set may not operate.

- 3) When changing the data, press the PAUSE button of the adjusting remote commander each time when setting new data to write the data in the non-volatile memory.
- Check that the data of adjustment addresses is the initial value.
   If not, change the data to the initial value.
- 5) After completing "Modification of C, D, E Page Data", select page: 0, address: 01, and set data: 00. Also perform all adjustments.

#### 6. Page C Address List

Note 1: Fixed data 1: Initialized data. (Refer to 2. Input of C Page Initial Data)
Fixed data 2: Modified data. (Refer to 5. Modification of

C, D, E, Page Data)

Address	Initial Value	Remark	
00	Fixed data-1		
01	Fixed data-2		
02 to 0C		Fixed data-1	
0D		Fixed data-2	
0E to 2F		Fixed data-1	
30 to 3B	00	Emergency Memory Address	
3C, 3D	F8	PLL fo Adjustment	
3E, 3F	70	Recording Current Adjustment	
40, 41	C0	AEQ Adjustment	
42, 43	90	ALQ Adjustment	
44	86	AGC Center Level Adjustment	
45	Fixed data-1		
46	86	PLL Capture Range Adjustment	
47	C8	CLK Delay Adjustment	
48 to 4B		Fixed data-1	
4C to 4F	00	Switching Position Adjustment	
50	54	Capstan FG Duty Adjustment	
51	31	Cupstan I G Daty Adjustment	
52 to 59	Fixed data-1		
5A	00	AEQ Adjustment	
5B to 6F		Fixed data-1	

#### 7. Page D Address List

Note 1: Fixed data 1: Initialized data. (Refer to 3. Input of D Page Initial Data)
Fixed data 2: Modified data. (Refer to 5. Modification of C, D, E, Page Data)

		<u>,</u>
Address	Initial Value	Remark
00 to 12		Fixed data-1
13		Fixed data-2
14		Fixed data-1
15 to 18		Fixed data-2
19 to 1E		Fixed data-1
1F	State Design Control of the Control	Fixed data-2
20 to 2B		Fixed data-1
2C to 2F		Fixed data-2
30 to 32		Fixed data-1
33	59	IC422 27MHz XTAL fo Adjustment
34	19	Playback CR Signal Level Adjustment
35	37	Playback CB Signal Level Adjustment
36	18	Playback Y Signal Level Adjustment
37 to 40		Fixed data-1
41 to 43	a di Nassia.	Fixed data-2
44 to 46		Fixed data-1
47	an eggs at season we ten	Fixed data-2
48 to 4F		Fixed data-1

### 8. Page E Address List

Note 1: Fixed data 1: Initialized data. (Refer to 4. Input of E Page Initial Data)
Fixed data 2: Modified data. (Refer to 5. Modification of C, D, E, Page Data)

Address	Initial Value	Remark
00 to 27		Fixed data-1
28 to 2C	Fixed data-2	
2D	Fixed data-1	
2E	Fixed data-2	
2F to 35		Fixed data-1
		Fixed data-2
36, 37	11 14 14 14 14 14 14 14 14 14 14 14 14 1	Fixed data-1
38		
39		The state of the s
3A		Fixed data-1 Fixed data-2
3B		
3C to 3F		Fixed data-1
40	76	Playback Composite VIDEO Chroma Adjustment
41	1	Fixed data-1
41		
42	83	Playback Composite VIDEO Chroma Adjustment
43	ļ	Fixed data-1
44	88	Playback Y Signal Level Adjustment
45		Fixed data-1
46	80	Playback CB Signal Level Adjustment
47		Fixed data-1
48	80	Playback CR Signal Level Adjustment
49 to 4D	Fixed data-1	
4E	16	EXT Subcarrier Phase Adjustment
4F to 51		Fixed data-1
52	80	Burst Position Adjustment (Coarse)
53	0	Burst Position Adjustment (Fine)
54	45	SYNC Position Adjustment (Coarse)
55		Fixed data-1
56	09	SYNC Position Adjustment (Fine)
57 to 5F	Fixed data-1	
	(2	Y/C Separation (Y Signal Level )
60	63	Adjustment
		Y/C Separation (Chroma Signal Level
61	69	Adjustment
62	16	Playback Setup Level Adjustment
- 62	7.4	Recording Chroma Decoder HUE
63	7A	Adjustment
64	7E	Recording Y Signal Level Adjustment
	·	Recording CB Signal Level
65	7A	Adjustment
		Recording CR Signal Level
66	7A ·	Adjustment
67		Fixed data-1
68	90	Recording Y/CB Delay Adjustment
69	90	Recording Y/CR Delay Adjustment
6A	1 -	Fixed data-1
6B	5F	Playback Y/CR Delay Adjustment
	6B	Playback Y/CB Delay Adjustment
6C		
6D	48	Playback SYNC Level Adjustment
6E	1 2	Fixed data-1
6F	8B	Playback Burst Level Adjustment

Address	Initial Value	Remark
70	8B	Playback Burst Level Adjustment (PAL)
71	B1	Playback Carrier Balance Adjustment
72	8A	Playback Carrier Balance Adjustment
73	60	INT Subcarrier Frequency Adjustment
74	37	Playback Composite VIDEO Chroma Adjustment
75	50	OSD1 Subcarrier Frequency Adjustment
76	50	OSD2 Subcarrier Frequency Adjustment
77		Fixed data-1

### 3-4. SERVO SYSTEM ADJUSTMENTS

#### 1. Switching Position Adjustment (CM-56 Board)

Mode	Playback
signal	SW/OL reference tape
Measurement Point	Page: 3, address: 03 on displayed data of adjusting remote commander
Measuring Instrument	Adjusting remote commander
Adjustment Page	С
Adjustment Address	4C, 4D, 4E, 4F
Specified Value	"00"

#### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 01, set data: 0E, and press the PAUSE button of the adjusting remote commander.
- Select page: 3, address: 02, and confirm that the data changes from "0E" to "00".
- 4) Select page: 3, address: 03, and confirm that the data is "00".
- 5) Turn OFF the HOLD switch on he adjusting remote commander and wait for more than 2 seconds. (The adjusted data are automatically written to page: C, address: 4C to 4F)
- Turn ON the HOLD switch on the adjusting remote commander.
- 7) Select page: 0, address: 01, and set data: 00.
- 8) Stop the tape playback.
- 9) Turn the POWER switch OFF.

#### 2. Capstan FG Duty Adjustment (CM-56 Board)

Mode	Playback
signal	Arbitrary tape
Measurement Point	Page: 3, address: 03 on displayed data of adjusting remote commander
Measuring Instrument	Adjusting remote commander
Adjustment Page	С
Adjustment Address	50, 51
Specified Value	"00"

#### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: 3, address: 01, set data: 15, and press the PAUSE button of the adjusting remote commander.
- Select page: 3, address: 02, and confirm that the data changes from "15" to "00".
- 4) Select page: 3, address: 03, and confirm that the data is the following value

When "00": Normal

When "01": Faulty

Perform the following adjustment only when "00" is displayed.

- 5) Select page: 3, address: 04 and 05, read the data, and take the values as Do4 and Do5 respectively.
  - (The data on page: 3, address: 05 must be 2F to 3F)
- Select page: C, address: 50, set data: Do4, and press the PAUSE button of the adjusting remote commander.
- 7) Select page: C, address: 51, set data: Dos, and press the PAUSE button of the adjusting remote commander.
- 8) Select page: 3, address: 01, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 9) Select page: 0, address: 01, and set data: 00.
- 10) Stop the tape playback.
- 11) Turn the POWER switch OFF.

#### 3-5. VIDEO SYSTEM ADJUSTMENTS

#### 3-5-1. RP-228 Board Adjustments

### 1. Recording Current Adjustment (RP-228 Board)

Mode	E-E
	ODDch adjustment
	CH1: Pin (6) of CN771 (CL812)
Measurement Point	CH2: Pin (5) of CN771 (CL813)
•	EVENch adjustment
	CH1: Pin ② of CN771 (CL816)
	CH1: Pin ③ of CN771 (CL815)
	Oscilloscope
Measuring Instrument	ADD mode
	CH2 INV mode
Adjustment Page	С
Adjustment Address	3E, 3F
Specified Value	$A = 4.1 \pm 0.1 \text{ Vp-p}$

Connection: Disconnect CN771 and connect as follows.

- ODDch adjustment: Connect a 180 Ω resistor between Pin (§) of CN771 (CL812) and Pin (§) of CN771 (CL813).
- EVENch adjustment: Connect a 180 Ω resistor between Pin
   of CN771 (CL816) and Pin ③ of CN771 (CL815).
   180 Ω resistor (Parts code: 1-249-408-11)

#### Adjusting method:

- Equalize the vertical range of CH1 and CH2 of the oscilloscope.
- Set the oscilloscope to the ADD mode, and set CH2 to the INV mode.
- 3) Select page: 0, address: 01, and set data: 01.
- 4) Select page: 3, address: 01, set data: 0C, and press the PAUSE button of the adjusting remote commander.
- 5) Select page: 3, address: 34, and set data: 01.
- 6) Select page: C, address: 3F (ODDch adjustment) or 3E (EVENch adjustment), change the data, and adjust the signal voltage (A) to the specified value, press the PAUSE button on the adjustment remote commander.
- 7) Select page: 3, address: 34, and set data: 04.
- 8) Select page: 3, address: 01, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 9) Select page: 0, address: 01, and set data: 00.

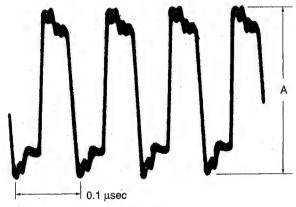


Fig. 5-3-5.

#### 2. PLL fo Adjustment (RP-228 Board)

Mode	E-E
Measurement Point	Displayed data of page: 3,
Measuring Instrument	address: 04
Adjustment Page	С
Adjustment Address	3D, 3C
Specified Value	Displayed data is "FD" to "FF", "00" to "03" ("FF", "00" are center values)

#### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: 3, address: 01, set data: 05, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 3, address: 36, and set data: 40.
- 4) Select page: 3, address: 04, and check that the average value D<sub>04</sub> of the displayed data is "FD" to "FF" or "00" to "03". If outside this range, select page: C, address: 3C, change the data, and check again.

[If Do4 is "80" to "FC"]

Select page: C, address: 3C, and decrease the data. (As the data is to be rewritten, press the PAUSE button of the adjusting remote commander)

[If Do4 is "04" to "7F"]

Select page: C, address: 3C, and increase the data. (As the data is to be rewritten, press the PAUSE button of the adjusting remote commander)

- 5) Select page: 3, address: 36, and set data: 05.
- 6) Select page: 3, address: 04, and check that the average value D<sub>04</sub> of displayed data is "FD" to "FF" or "00" to "03". If outside this range, select page: C, address: 3D, change the data, and check again.

[If Do4 is "80" to "FC"]

Select page: C, address: 3D, and decrease the data. (As the data is to be rewritten, press the PAUSE button of the adjusting remote commander)

[If Do4 is "04" to "7F"]

Select page: C, address: 3D, and increase the data. (As the data is to be rewritten, press the PAUSE button of the adjusting remote commander)

- 7) Select page: 3, address: 01, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 8) Select page: 3, address: 36, and set data: 02.

#### 3. CLK DELAY Adjustment (RP-228 Board)

Mode	Recording/playback
Signal	Color bar
Measurement Point	CH1: Pin ® of CN775 (C1ERP)
	CH2: Pin ⑥ of CN775 (JSWP)
	Oscilloscope
Measuring Instrument	Trigger source: CH2
Adjustment Page	С
Adjustment Address	47

#### Adjusting method:

- 1) Record color bar signal for two minutes on any tape.
- 2) Select page: 0, address: 01, and set data: 01.
- 3) Write the following data in page: C, address: 40 to 43, 47, 4B, 5A.

To write the data, press the PAUSE button of the adjusting remote commander each time data is set.

Page: C, address: 40, data: C0

Page: C, address: 41, data: C0

Page: C, address: 42, data: 90

Page: C, address: 43, data: 90

Page: C, address: 47, data: C8

Page: C, address: 4B, data: 80

Page: C, address: 5A, data: 00

- 4) Playback the part recorded with the color bar.
- Select page: C, address: 47, increase the data, and read the data Di when the CH1 pulse is set to the whole audio and video areas.
- Select page: C, address: 47, decrease the data, and read the data D<sub>2</sub> when the CH1 pulse is set to the whole audio and video areas.
- 7) Obtain the average value of D<sub>1</sub> and D<sub>2</sub>, and take it as D<sub>3</sub>.
- 8) Select page: C, address: 47, set data: D<sub>3</sub>, and press the PAUSE button of the adjusting remote commander.
- 9) Select page: C, address: 4B, set data: 0E, and press the PAUSE button of the adjusting remote commander.
- Select page: C, address: 5A, set data: 8C, and press the PAUSE button of the adjusting remote commander.
- 11) Select page: 0, address: 01, and set data: 00.
- 12) After completing the adjusting, perform "5. AEQ Adjustment".

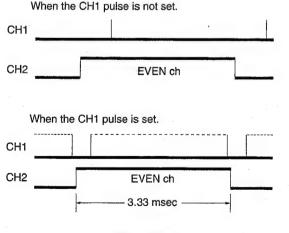


Fig. 5-3-6.

#### 4. AGC Center Level Adjustment (RP-228 Board)

Mode	Recording/playback
Signal	Color bar
Measurement Point	CH1: Pin ® of CN775 (C1ERP)
	CH2: Pin ⑥ of CN775 (JSWP)
	Oscilloscope
Measuring Instrument	Trigger source: CH2
Adjustment Page	С
Adjustment Address	44

#### Adjusting method:

- 1) Record color bar signal for two minutes on any tape.
- 2) Select page: 0, address: 01, and set data: 01.
- Write the following data in page: C, addresses: 40 to 44, 4B,
   5A.

To write the data, press the PAUSE button of the adjusting remote commander each time data is set.

Page: C, address: 40, data: C0

Page: C, address: 41, data: C0

Page: C, address: 42, data: 90

Page: C, address: 43, data: 90

Page: C, address: 44, data: 90

Page: C, address: 4B, data: 80

Page: C, address: 5A, data: 00

- 4) Playback the part recorded with the color bar signal.
- Select page: C, address: 44, increase the data, and read the data D<sub>1</sub> when the CH1 pulse is set to the whole audio and video areas.
- 6) Select page: C, address: 44, decrease data, and read the data D2 when the CH1 pulse is set to the whole audio and video areas.
- 7) Obtain the average value of D1 and D2, and take it as D3.
- Select page: C, address: 44, set data: D3, and press the PAUSE button of the adjusting remote commander.
- Select page: C, address: 4B, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 10) Select page: C, address: 5A, set data: 8C, and press the PAUSE button of the adjusting remote commander.
- 11) Select page: 0, address: 01, and set data: 00.
- 12) After completing the adjusting, perform "5. AEQ Adjustment".

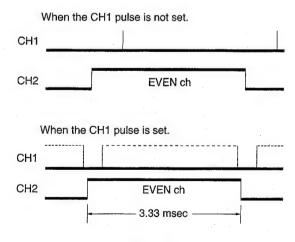


Fig. 5-3-7.

#### 5. AEQ Adjustment (RP-228 Board)

Mode	Recording/playback
Signal	Arbitrary
Measurement Point	Pin ® of CN775 (RF MONITOR) (Note 1)
Measuring Instrument	Oscilloscope
Adjustment Page	С
Adjustment Address	40, 41, 42, 43, 5A

**Note 1:** Connect a 75  $\Omega$  resistor between Pin (8) and (7) (GND) of CN 775.

75 Ω resistor (Parts code: 1-247-804-11)

Note 2: Use the DVM60ME tape or equivalents.

#### Adjusting method:

1) Select page: 0, address: 01, and set data: 01.

2) Select page: C, address: 4B, set data: 80, and press the PAUSE button of the adjusting remote commander.

3) Write data in page: C, addresses: 40 to 43, and 5A as shown in the following table.

To write the data, press the PAUSE button of the adjusting remote commander each time data is set.

Address	Data
40	C0
41	C0
42	90
43	90
5A	00

- 4) Record color bar signal for one minute from the tape top.
- 5) Rewind the tape, and play back the part recorded.
- 6) When the RF output stabilizes, select page: 3, address: 01, and set data: 07, and press the PAUSE button of the adjusting remote commander.
- 7) About 20 to 30 seconds after pressing the PAUSE button, select page: 3, address: 02, and check that the data changes from "07" to "00".
- 8) Select page: 3, address: 03, and check that the data is the following value.

When "00": Normal

When "01": EVENch is faulty When "02": ODDch is faulty

When "03": EVENch and ODDch are faulty

Perform the following procedure only when "00" is displayed.

9) Select page: 3, address: 04 to 07, read the data, and take the values as Do4, Do5, Do6, and Do7.

- 10) Select page: C, address: 40, set data: Do4, and press the PAUSE button of the adjusting remote commander.
- 11) Select page: C, address: 42, set data: Dos, and press the PAUSE button of the adjusting remote commander.
- 12) Select page: C, address: 41, set data: Do6, and press the PAUSE button of the adjusting remote commander.
- 13) Select page: C, address: 40, set data: Do7, and press the PAUSE button of the adjusting remote commander.
- 14) Select page: C, address: 5A, set data: 8C, and press the PAUSE button of the adjusting remote commander.
- 15) Select page: C, address: 4B, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 16) Select page: C, address: 01, and set data: 00.

#### PLL Capture Range Adjustment (RP-228 Board)

Mode	Recording/Playback
Signal	Color bar
Measurement Point	CH1: Pin <sup>®</sup> of CN775 (C1ERP)
	CH2: Pin ⑥ of CN775 (JSWP)
3.6	Oscilloscope
Measuring Instrument	Trigger source: CH2
Adjustment Page	C
Adjustment Address	46

#### Adjusting method:

- 1) Record color bar signal for two minutes on any tape.
- 2) Select page: 0, address: 01, and set data: 01.
- Write the following data in page: C, addresses: 4B and 5A. To write the data, press the PAUSE button of the adjusting remote commander each time data is set.

Page: C, address: 4B, data: 80

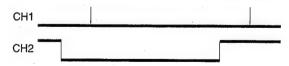
Page: C, address: 5A, data: 00

- 4) Playback the part recorded with the color bar signal.
- Select page: C, address: 46, set data: 80, and press the PAUSE button of the adjusting remote commander.
- 6) Select page: C, address: 46, set the data to "60", and check that the pulse is not set at the audio area head of the ERRP waveform's ODDch of the oscilloscope (CH1).
- 7) Select page: C, address: 46, set the data to "A0", and check that the pulse is not set at the audio area head of the C1ERP waveform's ODDch of the oscilloscope (CH1).

After confirming steps 6) and 7), select page: C, address: 46, set data: 80 again and proceed to step 12).

- 8) If the pulse is set in steps 6) and 7), select page: C, address: 46, increase the data from "80", and read the data D1 when the pulse is set at the audio area head of CH1.
- 9) Select page: C, address: 46, decrease the data from "80", and read the data D2 when the pulse is set at the audio area head of
- 10) Obtain the average value of D1 and D2, and take it as D3.
- 11) Select page: C, address: 46, set data: D3, and press the PAUSE button of the adjusting remote commander.
- 12) Select page: C, address: 4B, set data: 00, and press the PAUSE button of the adjusting remote commander.
- 13) Select page: C, address: 5A, set data: 8C, and press the PAUSE button of the adjusting remote commander.
- 14) Select page: 0, address: 01, and set data: 00.

When the pulse is not set at the audio area head.



When the pulse is set at the audio area head.

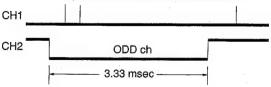


Fig. 5-3-8.

#### 7. IC774 41.85 MHzVCO Check (RP-228 Board)

Mode	E-E
Signal	Arbitrary
Measurement Point	Page: 3, address: 39 on displayed data of
Measuring Instrument	adjustment remote commander
Adjustment Value	"37" to "C9" (0.6 to 2.2 Vdc)

#### Check method:

1) Select page: 3, address: 39, and check that the displayed data is "37" to "C9".

#### 3-5-2. JC-19 Board Adjustments

#### A/D Converter Reference Voltage Adjustment 1 (JC-19 Board)

Mode	E-E
Signal	Arbitrary
Measurement Point	Pin (5) of IC013 (CL061)
Measuring Instrument	Digital voltmeter
Adjusting Element	RV001
Specified Value	$A = 2.83 \pm 0.01 \text{ Vdc}$

#### Adjusting method:

1) Set the VRT voltage (A) to the specified value using RV001.

## 2. A/D Converter Reference Voltage Adjustment 2 (JC-19 Board)

Mode	E-E
Signal	Arbitrary
Measurement Point	Pin ③ of IC013 (CL062)
Measuring Instrument	Digital voltmeter
Adjusting Element	RV002
Specified Value	$A = 0.96 \pm 0.01 \text{ Vdc}$

#### Adjusting method:

1) Set the VBT voltage (A) to the specified value using RV002.

## 3. Y Signal Clamp Reference Voltage Adjustment (JC-19 Board)

Mode	E-E
Signal	Color bar
Measurement Point	Pin (8) of IC011 (CL054)
Measuring Instrument	Digital voltmeter
Adjusting Element	RV011
Specified Value	$A = 1.150 \pm 0.005 \text{ Vdc}$

Connection: Connect a jumper wire between Pin ⑥ of IC018 (CL150) and GND.

### Adjusting method:

1) Set the Y signal clamp reference voltage (A) to the specified value using RV011.

## 4. CR Signal Clamp Reference Voltage Adjustment (JC-19 Board)

Mode	E-E
Signal	Color bar
Measurement Point	Pin (8) of IC010 (CL052)
Measuring Instrument	Digital voltmeter
Adjusting Element	RV010
Specified Value	$A = 1.900 \pm 0.005 \text{Vdc}$

Connection: Connect a jumper wire between Pin ⑥ of IC018 (CL150) and GND.

#### Adjusting method:

1) Set the CR signal clamp reference voltage (A) to the specified value using RV010.

#### CB Signal Clamp Reference Voltage Adjustment (JC-19 Board)

Mode	E-E
Signal	Color bar
Measurement Point	Pin (8) of IC009 (CL053)
Measuring Instrument	Digital voltmeter
Adjusting Element	RV012
Specified Value	$A = 1.900 \pm 0.005 \text{ Vdc}$

Connection: Connect a jumper wire between Pin ® of IC018 (CL150) and GND.

#### Adjusting method:

 Set the CB signal clamp reference voltage (A) to the specified value using RV012.

#### 6. Playback Y Signal Level Adjustment (JC-19 Board)

Mode	Recording
Signal	DV input (Note 1)
Measurement Point	Pin ® of CN104 or pin @ of CN102 on
	VA-106 board
Measuring Instrument	Oscilloscope
Adjustment Page	D .
Adjustment Address	36
Specified Value	$A = 0.43 \pm 0.04 \text{ V (NTSC)}$
	$A = 0.41 \pm 0.04 \text{ V (PAL)}$

Note 1: Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

#### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 36, change data, and adjust the Y signal level (A) to the specified value.
- 3) Select page: 0, address: 01, and set data: 00.

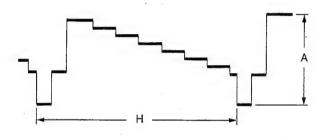


Fig. 5-3-9.

## 7. Playback CR Signal Level Adjustment (JC-19 Board)

Mode	Recording
Signal	DV input (Note 1)
Measurement Point	Pin 1 of CN104 or pin 1 of CN102 on
	VA-106 board
Measuring Instrument	Oscilloscope
Adjustment Page	D
Adjustment Address	34
Specified Value	$A = 540 \pm 10 \text{ mV}$

Note 1: Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

#### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: D, address: 34, change data, and adjust the CR signal level (A) to the specified value.
- 3) Select page: 0, address: 01, and set data: 00.

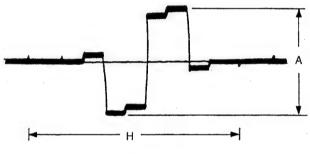


Fig. 5-3-10.

# 8. Playback CB Signal Level Adjustment (JC-19 Board)

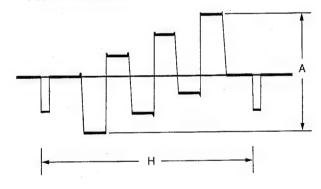
Mode	Recording
Signal	DV input (Note 1)
Measurement Point	Pin 1 of CN104 or pin 1 of CN102 on
	VA-106 board
Measuring Instrument	Oscilloscope
Adjustment Page	D
Adjustment Address	35
Specified Value	$A = 390 \pm 10 \text{ mV}$

Note 1: Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 00.
- 2) Select page: D, address: 35, change data, and adjust the CB signal level (A) to the specified value.
- 3) Select page: 0, address: 01, and set data: 00.

### For NTSC model



### For PAL model

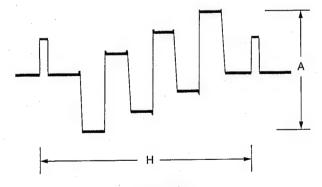


Fig. 5-3-11.

### 9. IC422 27MHz XTAL fo Adjustment (JC-19 Board)

Mode	Playback
Signal	Arbitrary tape
Measurement Point	Pin @ of IC442 (CL479)
Measuring Instrument	Frequency counter
Adjustment Page	D
Adjustment Address	33
Specified Value	$f = 13500000 \pm 100 \text{ Hz}$

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 33, change data, and adjust the clock frequency (f) to the specified value.
- 3) Press the PAUSE button on the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

### 10. AFC Preliminary Adjustment (JC-19 Board)

Mode	Recording
Signal	Color bar
Measurement Point	Pin (9) of IC205 (CL214)
Measuring Instrument	Digital voltmeter
Adjusting Element	CT201
Specified Value	$A = 1.9 \pm 0.5 \text{ Vdc}$

### Adjusting method:

1) Set the DC voltage (A) to the specified value using CT201.

### 11. AFC Picture Frame Adjustment (JC-19 Board)

Mode	Recording
Signal	Color bar (Video input) (Note 1)
Measurement Point	CH1: Pin ② of IC017 (CL051)
	CH2: Pin 29 of IC205 (CL222)
Measuring Instrument	Oscilloscope
Adjusting Element	RV201
Specified Value	$T = 110 \pm 10 \text{ nsec}$

**Note 1:** Set "VIDEO" mode with the INPUT SELECT button on the front panel.

### Adjusting method:

1) Set the time difference (T) between the H SYNC falling and AFH rising to the specified value using RV201.

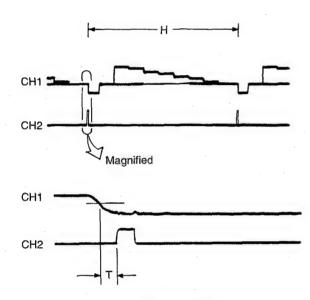


Fig. 5-3-12.

### 12. AFC Adjustment (JC-19 Board)

Mode	Recording
Signal	Color bar
Measurement Point	Pin (9) of IC205 (CL214)
Measuring Instrument	Digital voltmeter
Adjusting Element	CT201
Specified Value	$A = 1.80 \pm 0.05 \text{ Vdc}$

### Adjusting method:

1) Set the DC voltage (A) to the specified value using CT201.

### 3-5-3. General Adjustments

### 1. Playback Y/CR Delay Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	CH1: Component Y output terminal
	CH2: Component R-Y output terminal
Measuring Instrument	Oscilloscope (Overlay displayed)
Adjustment Page	Е
Adjustment Address	6B
Specified Value	$A = B (\pm 20 \text{ nsec or less})$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 6B, and change data to adjust so that the Y signal and R-Y signal cross at the boundary of green and magenta with A-B. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

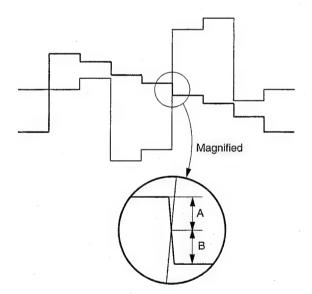


Fig. 5-3-13.

### 2. Playback Y/CB Delay Adjustment (VA-106 Board)

E-E
Color bar (DV input) (Note 1)
CH1: Component Y output terminal
CH2: Component B-Y output terminal
Oscilloscope (Overlay displayed)
Е
6C
$A = B (\pm 20 \text{ nsec or less})$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 6C, and change data to adjust so that the Y signal and B-Y signal cross at the boundary of green and magenta with A-B. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

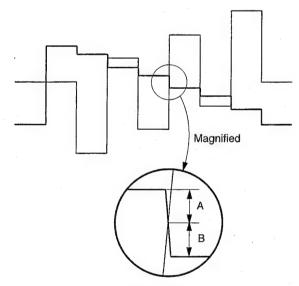


Fig. 5-3-14.

# 3. Playback Y Signal Level Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Componet Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	Е .
Adjustment Address	44
Specified Value	$A = 714 \pm 7 \text{ mV (NTSC)}$
	$A = 700 \pm 7 \text{ mV (PAL)}$
1	

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

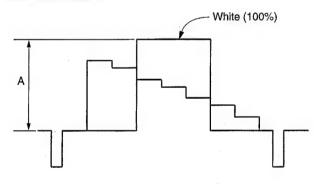
**Note 2:** Perform this adjustment after confirming that the specified value in the following adjustment of the JC-19 board has been satisfied.

1. Playback CR Signal Level Adjustment.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 44, change the data, adjust the white (100%) signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

### For NTSC model



### For PAL model

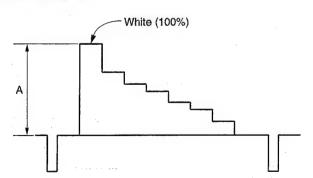


Fig. 5-3-15.

### 4. Playback Setup Level Adjustment (VA-106 Board)

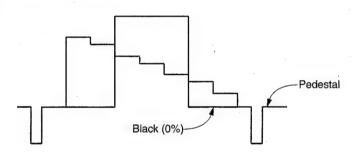
Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Componet Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	Е
Adjustment Address	62
Specified Value	Black level = Pedestal level

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 62, and change data to adjust so that the black (0%) signal level becomes same as pedestal. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00

### For NTSC model



### For PAL model

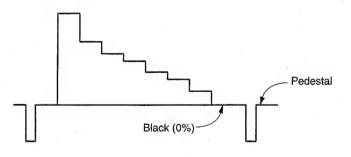


Fig. 5-3-16.

# 5. Playback CR Signal Level Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Componet R-Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	E
Adjustment Address	48
Specified Value	$A = 756.8 \pm 7 \text{ mVp-p (NTSC)}$
	$A = 525 \pm 7 \text{ mVp-p (PAL)}$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

**Note 2:** Perform this adjustment after confirming that the specified value in the following adjustment of the JC-19 board has been satisfied.

1. Playback CR Signal Level Adjustment.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 48, change the data, adjust the R-Y signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

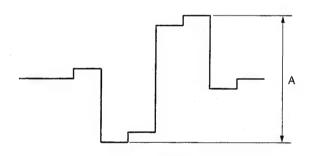


Fig. 5-3-17.

### Playback CB Signal Level Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Componet B-Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	Е
Adjustment Address	46
Specified Value	$A = 756.8 \pm 7 \text{ mVp-p (NTSC)}$
	$A = 525 \pm 7 \text{ mVp-p (PAL)}$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

**Note 2:** Perform this adjustment after confirming that the specified value in the following adjustment of the JC-19 board has been satisfied.

1. Playback CB Signal Level Adjustment.

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 46, change the data, adjust the B-Y signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

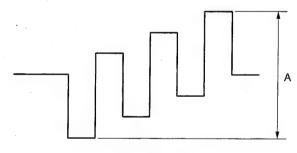


Fig. 5-3-18.

### 7. Playback Sync Level Adjustment (VA-106 Board)

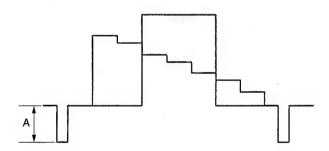
Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Componet Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	E
Adjustment Address	6D
Specified Value	$A = 286 \pm 3 \text{ mV (NTSC)}$
	$A = 300 \pm 3 \text{ mV (PAL)}$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 6D, change the data, adjust the Y signal SYNC level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

### For NTSC model



### For PAL model

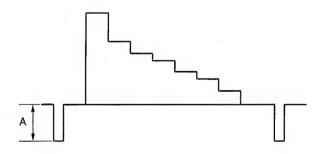


Fig. 5-3-19.

# 8. Playback Carrier Balance Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Composite VIDEO output terminal
Measuring Instrument	Vectorscope, Oscilloscope
Adjustment Page	Е
Adjustment Address	71, 72
Specified Value	A = 15 mVp-p or less

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### For NTSC model

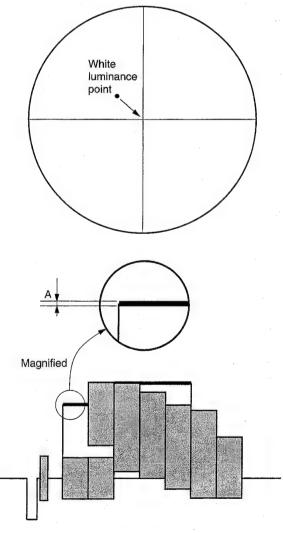


Fig. 5-3-20.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 71, 72 and change data to adjust with the vectorscope (use with large gain in UNCAL mode) so that a white luminance point of video signal coincides with the center. Then, press the PAUSE button of the adjusting remote commander.
- 3) Confirm with the oscilloscope that the carrier (A) of white part of color bars satisfies the specified value.
- 4) Select page: 0, address: 01, and set data: 00.

### For PAL model

PAL model is two white luminance points.

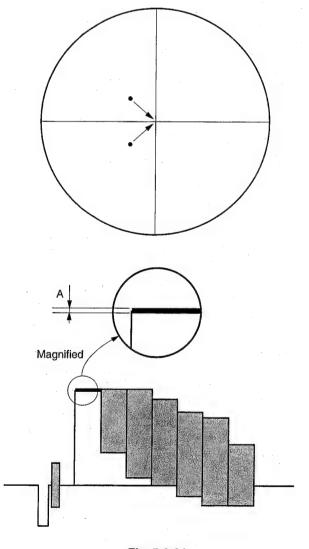


Fig. 5-3-21.

### 9. Playback Burst Level Adjustment (VA-106 Board)

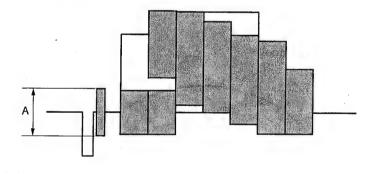
Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Composite VIDEO output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	Е
Adjustment Address	6F (NTSC)
	6F, 70 (PAL)
Specified Value	$A = 286 \pm 2 \text{ mV (NTSC)}$
	$A = 300 \pm 2 \text{ mV (PAL)}$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: (6F: NTSC, 6F and 70: PAL), change the data, adjust the VIDEO signal burst level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00

### For NTSC model



### For PAL model

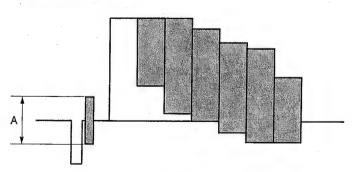


Fig. 5-3-22.

# 10. Playback Composite VIDEO Chroma (R-Y Signal Level) Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Composite VIDEO output terminal
Measuring Instrument	Vectorscope
Adjustment Page	Е
Adjustment Address	42
Specified Value	Phase: 102 ± 2.5° (NTSC)
	102 ± 3° (PAL)
	Gain: 630 ± 18mV (NTSC)
	$630 \pm 35 \text{mV (PAL)}$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Adjust the burst luminance point to the specified position using the PHASE and GAIN knobs of the vectorscope.
- Select page: E, address: 42, change the data, adjust a red luminance point to the specified position (inside of thick frame), and press the PAUSE button of the adjusting remote commander.
- 4) select page: 0, address: 01, and set data: 00.

### For NTSC model

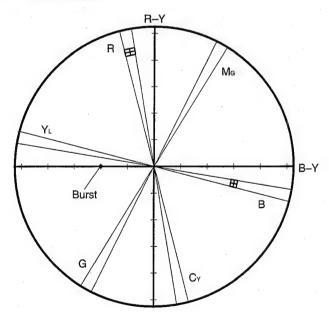


Fig. 5-3-23.

# 11. Playback Composite VIDEO Chroma (B-Y Signal Level) Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	CompositeVIDEO output terminal
Measuring Instrument	Vectorscope
Adjustment Page	Е
Adjustment Address	40
Specified Value	Phase: 348 ± 2.5° (NTSC)
	$348 \pm 3^{\circ} (PAL)$
	Gain: 440 ± 18mV (NTSC)
	$440 \pm 35 \text{mV(PAL)}$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Adjust the burst luminance point to the specified position using the PHASE and GAIN knobs of the vectorscope.
- Select page: E, address: 40, change the data, adjust a blue luminance point to the specified position (inside of thick frame), and press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

### For PAL model

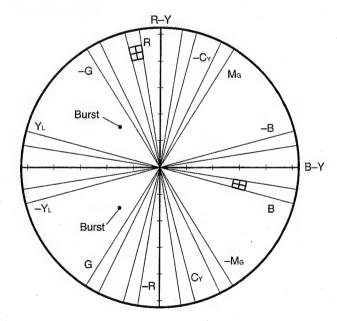


Fig. 5-3-24.

# 12. Playback Composite VIDEO Chroma (R-Y Phase) Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Composite VIDEO output terminal
Measuring Instrument	Vectorscope
Adjustment Page	Е
Adjustment Address	74
Specified Value	Phase: $102 \pm 2.5^{\circ}$ (NTSC)
	102 ± 3° (PAL)
	Gain: 630 ± 18mV (NTSC)
	$630 \pm 35 \text{mV (PAL)}$

Note 1: Set "DV" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Adjust the burst luminance point to the specified position using the PHASE and GAIN knobs of the vectorscope.
- Select page: E, address: 74, change the data, adjust a red luminance point to the specified position (inside of thick frame), and press the PAUSE button of the adjusting remote commander.
- At this time, confirm that other color luminance points are inside each phase specified frame (±2.5°: NTSC, ±3°: PAL).
- 5) Select page: 0, address: 01, and set data: 00.

# 13. INT Subcarrier Frequency Adjustment (GL-10 Board)

Mode	E-E
Signal	Color bar (DV input) (Note 1)
Measurement point	Composite VIDEO output terminal
	Pattern generator
Measuring Instrument	(External synchronization mode)
	Frequency counter (Note 2)
Adjustment Page	Е
Adjustment Address	73
Specified Value	f = 3579545 ± 5 Hz (NTSC)
	$f = 4433619 \pm 5 \text{ Hz (PAL)}$

Note 1: Set "DV input" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal. (How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

Note 2: Connection of equipment

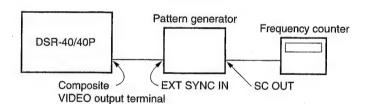


Fig. 5-3-25.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 73, change the data, adjust the INT subcarrier frequency (f) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00

### Decoder Freerunning Frequency Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (Burst signal, Chroma signal OFF)
	(S VIDEO input) (Note 1)
Measurement point	TP201
Measuring Instrument	Frequency counter (Note 2)
Adjusting Element	CT201
Specified Value	f=3579545 ± 20 Hz (NTSC)
	f=4433619 ± 20 Hz (PAL)

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

**Note 2:** Connect the frequency counter via high input impedance equipment such as an oscilloscope.

### Adjusting method:

1) Set the Decoder freerunning frequency (f) to the specified value using CT201.

### 15. Recording Y/CR Delay Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (S VIDEO input) (Note 1)
Measurement point	CH1: Component Y output terminal CH2: Component R-Y output terminal
Measuring Instrument	Oscilloscope (Overlay displayed)
Adjustment Page	Е
Adjustment Address	69
Specified Value	$A = B \ (\pm 20 \text{ nsec or less})$

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 69, and change data to adjust so that the Y signal and R-Y signal cross at the boundary of green and magenta with A-B. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

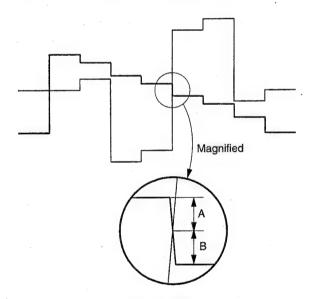


Fig. 5-3-26.

### 16. Recording Y/CB Delay Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (S VIDEO input) (Note 1)
Measurement point	CH1: Component Y output terminal CH2: Component B-Y output terminal
Measuring Instrument	Oscilloscope (Overlay displayed)
Adjustment Page	Е
Adjustment Address	68
Specified Value	$A = B (\pm 20 \text{ nsec or less})$

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 68, and change data to adjust so that the Y signal and B-Y signal cross at the boundary of green and magenta with A-B. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

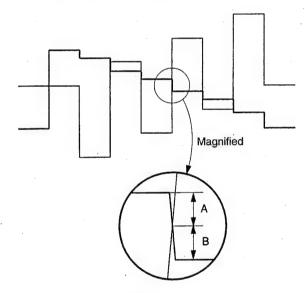


Fig. 5-3-27.

# 17. Recording Y Signal Level Adjustment (VA-106 Board)

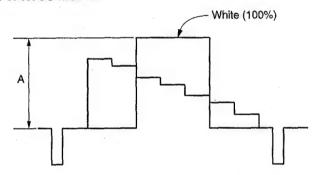
Mode	E-E
Signal	Color bar (S VIDEO input) (Note 1)
Measurement point	Componet Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	E
Adjustment Address	64
Specified Value	$A = 714 \pm 7 \text{ mV (NTSC)}$
	$A = 700 \pm 7 \text{ mV (PAL)}$

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 64, change the data, adjust the white (100%) signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

### For NTSC model



### For PAL model

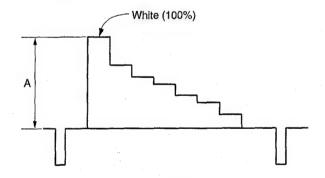


Fig. 5-3-28.

# 18. Recording Chroma Decoder HUE Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (S VIDEO input) (Note 1)
Measurement point	Componet B-Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	E
Adjustment Address	63
Specified Value	A = B = C

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 63, and change data to adjust so that A, B, and C amplitudes of B-Y signal are equal. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00

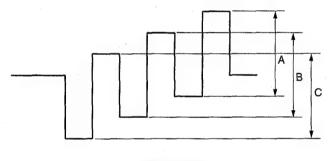


Fig. 5-3-29.

# 19. Recording CR Signal Level Adjustment (VA-106 Board)

Mode	E-E
Signal	Color bar (S VIDEO input) (Note 1)
Measurement point	Componet R-Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	Е
Adjustment Address	66
Specified Value	$A = 756.8 \pm 7 \text{ mVp-p (NTSC)}$
	$A = 525 \pm 7 \text{ mVp-p (PAL)}$

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 66, change the data, adjust the R-Y signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

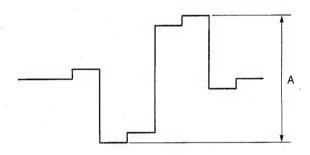


Fig. 5-3-30.

# 20. Recording CB Signal Level Adjustment (VA-106 Board)

Mode	Е-Е	
Signal	Color bar (S VIDEO input) (Note 1)	
Measurement point	Componet B-Y output terminal	
Measuring Instrument	Oscilloscope	
Adjustment Page	E	
Adjustment Address	65	
	$A = 756.8 \pm 7 \text{ mVp-p (NTSC)}$	
Specified Value	$A = 525 \pm 7 \text{ mVp-p (PAL)}$	

Note 1: Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 65, change the data, adjust the B-Y signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

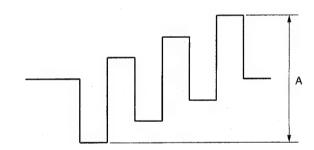


Fig. 5-3-31.

### 21. SYNC Position Adjustment (GL-10 Board)

Mode	Playback	
G! 1	Arbitrary tape	
Signal	Black burst (REF.VIDEO input)	
	CH1: Black burst	
	(The same signal that REF.VIDEO	
Measurement point	input)	
	CH2: Composite VIDEO output	
Measuring Instrument	Oscilloscope	
Adjustment Page	E	
Adjustment Address	56 (Coarse), 54 (Fine)	
Specified Value	$T = 0 \pm 10$ nsec	

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, address: 56, 54, and change data to adjust so that the difference in SYNC fall time (T) between CH1 and CH2 satisfies the specified value. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

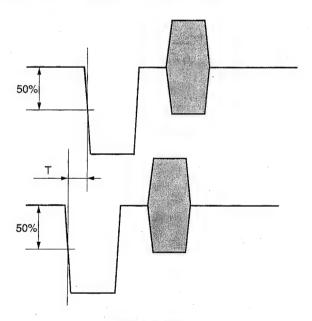


Fig. 5-3-32.

### 22. EXT Subcarrier Phase Adjustment (GL-10 Board)

Playback		
Arbitrary tape		
Black burst (REF.VIDEO input)		
CH1: Black burst		
(The same signal that REF.VIDEO		
input)		
CH2: Composite VIDEO output		
Vectorscope (SC PHASE displayed mode)		
E 4E Phase: 0 ± 0.5°		

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Adjust the phase of black burst to horizontal axis.
- 3) Select page: E, address: 4E, and change data to adjust so that the phase of composite video output becomes 0 + 0.5°. Then, press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

### 23. Burst Position Adjustment (GL-10 Board)

Mode	E-E	
Signal	Color bar (DV input) (Note 1)	
Measurement point	Composite VIDEO output	
Measuring Instrument	Oscilloscope	
Adjustment Page	Е	
Adjustment Address	52 (Coarse), 53 (Fine)	
Specified Value	$T = 0.6 \pm 0.1 \mu\text{sec} (\text{NTSC})$	
	$T = 0.9 \pm 0.1 \mu sec (PAL)$	

Note 1: Set "DV input" mode with the INPUT SELECT button on the front panel. Generate color bar signal with NTSC: DCR-VX1000/PAL: DCR-VX1000E and enter it to the DV terminal.

(How to generate color bars: Connect the adjusting remote commander to the NTSC: DCR-VX1000/PAL: DCR-VX1000E, select page: 5, address: 02, and set data: 09. After adjustment, be sure to return the data to "00")

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: E, addresses: 52, 53, and change data to adjust so that the time (T) from 50% position of SYNC leading edge to 50% position of burst leading edge satisfies the sprcified value. Then, press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00

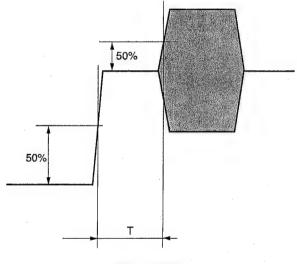


Fig. 5-3-33.

### 24. Y/C Separation Adjustment (VA-106 Board)

(1) Y Signal Level Adjutment

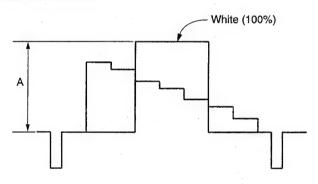
Mode	E-E
Signal	Color bar (VIDEO input) (Note 1)
Measurement point	Componet Y output terminal
Measuring Instrument	Oscilloscope
Adjustment Page	E
Adjustment Address	60
	$A = 714 \pm 7 \text{ mVp-p (NTSC)}$
Specified Value	$A = 700 \pm 7 \text{ mVp-p (PAL)}$

Note 1: Set "VIDEO" mode with the INPUT SELECT button on the front panel.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 60, change the data, adjust the Y signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

### For NTSC model



### For PAL model

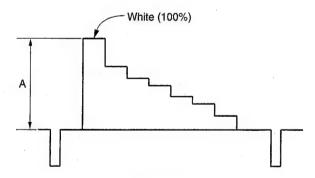


Fig. 5-3-34.

### (2) Chroma Signal Level Adjutment

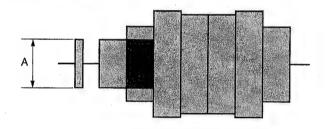
Mode	E-E	
Signal	Color bar (VIDEO input) (Note 1)	
Measurement point	S VIDEO output (C) terminal	
Measuring Instrument	Oscilloscope	
Adjustment Page	Е	
Adjustment Address	61	
	$A = 286 \pm 10 \text{ mVp-p (NTSC)}$	
Specified Value	$A = 300 \pm 10 \text{ mVp-p (PAL)}$	

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 61, change the data, adjust the burst signal level (A) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

### For NTSC model



### For PAL model

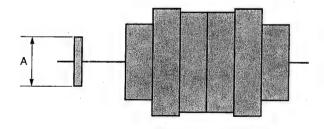


Fig. 5-3-35.

### 25. OSD1 Subcarrier Adjustment (VA-106 Board)

Mode	E-E	
Signal	No signal (S VIDEO input) (Note 1)	
Measurement point	MONITOR VIDEO output terminal	
Measuring Instrument	Pattern generator (External synchronization mode) Frequency counter (Note 2)	
Adjustment Page	Е	
Adjustment Address	75	
Specified Value	f = 3579545 ± 15 Hz (NTSC) f = 4433619 ± 15 Hz (PAL)	

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

Note 2: Connection of equipment

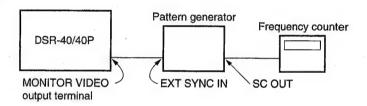


Fig. 5-3-36.

### Adjusting method:

- 1) Select page: 0, address: 01, and set data: 01.
- Select page: E, address: 75, and change the data, adjust OSD1 subcarrier frequency (f) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

### 26. OSD2 Subcarrier Adjustment (VA-106 Board)

Mode	E-E	
Signal	No signal (S VIDEO input) (Note 1)	
Measurement point	MONITOR VIDEO output terminal	
Measuring Instrument	Pattern generator (External synchronization mode) Frequency counter (Note 2)	
Adjustment Page	Е	
Adjustment Address	76	
Specified Value	f = 3579545 ± 15 Hz (NTSC) f = 4433619 ± 15 Hz (PAL)	

**Note 1:** Set "S VIDEO" mode with the INPUT SELECT button on the front panel.

Note 2: Connection is refer to "Fig. 5-3-36".

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Open the SEARCH screen using the MENU button on the front panel.
- 3) Select page: E, address: 76, change the data, adjust OSD2 subcarrier frequency (f) to the specified value, and press the PAUSE button of the adjusting remote commander.
- 4) Select page: 0, address: 01, and set data: 00.

### 3-5-4. BIST Check

### 1. Playback System Check (JC-19, RP-228 Boards)

- Connect the adjusting remote commander to the LANC terminal, and turn the HOLD switch ON.
- 2) Playback the BIST check tape.

### IC411(D1) Playback System Check

- 3) Select page: 4, address: 11, set data: 04, and press the PAUSE button.
- Select page: 4, address: 11, set data: 00, and press the PAUSE button.
- 5) Select page: 4, address: 13, set data: 03, and press the PAUSE button.
  - (Data automatically returns to "00")
- 6) If IC411 (D1) → IC401 (U1) playback system is normal, the following data are displayed on page: 4, addresses: 14, 15.

Page	Address	Data
4	15	E5
4	14	11

 If IC411(D1) → IC701 (IND1) playback system is normal, the following data are displayed on page: 4, addresses: 16, 17.

Page	Address	Data
4	17	C0 or BA
4	16	6E or 04

 If IC411(D1) → IC805 (A1) playback system is normal, the following data are displayed on page: 4, addresses: 18, 19.

Page	Address	Data
4	19	33 or B2
4	18	59 or 19

### IC805 (A1) Playback System Check

- Select page: 4, address: 11, set data: 10, and press the PAUSE button.
- 10) Select page: 4, address: 11, set data: 00, and press the PAUSE button.
- 11) Select page: 4, address: 13, set data: 04, and press the PAUSE button.
  - (Data automatically returns to "00")
- 12) If IC805 (A1) playback system is normal, the following data are displayed on page: 4, addresses: 14, 15.

Page	Address	Data
4	15	7B
4	14	B5

### IC401 (U1) Playback System Check

- 13) Select page: 4, address: 11, set data: 08, and press the PAUSE button.
- 14) Select page: 4, address: 42, set data: 01, and press the PAUSE
- 15) Select page: 4, address: 13, set data: 07, and press the PAUSE button.
  - (Data automatically returns to "00")
- 16) Select page: 4, address: 42, set data: 00, and press the PAUSE button.
- 17) Select page: 4, address: 11, set data: 00, and press the PAUSE button.

18) If IC401 (U1) → IC200 (S1) playback system is normal, the following data are displayed on page: 4, addresses: 14, 15.

Page Address		Data		
4	15	1E		
4	14	F2		

19) If IC411 (D1) → IC401 (U1) playback system is normal, the following data are displayed on page: 4, addresses: 16, 17.

	Page	Address	Data
I	4	17	D1
I	4	16	61

20) Perform "Record System Check" successively.

### 2. Record System Check

Note: Perform "Record System Check" successively (with BIST check tape in playback status)

1) Enter the following data.

Note: Press the PAUSE button each time the data is set.

Page	Address	Data
4	41	01
4	0F	02
4	0E	01
4	40	01
4	0F	0A
4	40	00
4	40	01
4	0F	0E
4	40	. 00
4	40	01
4	OF	8E
4	40	00

- With the HOLD switch on adjusting remote commander turned ON, eject the BIST check tape, and insert a record tape instead.
- 3) Set the REC mode.

IC401 (U1) Record System Check

- 4) Select page: 4, address: 11, set data: 08, and press the PAUSE button.
- 5) Select page: 4, address: 42, set data: 01, and press the PAUSE button.
- 6) Select page: 4, address: 13, set data: 07, and press the PAUSE button.

(Data automatically returns to "00".)

- 7) Select page: 4, address: 42, set data: 00, and press the PAUSE button.
- 8) Select page: 4, address: 11, set data: 00, and press the PAUSE button
- If IC401 (U1) → IC411 (D1) record system is normal, the following data are displayed on page: 4, addresses: 16, 17.

Page	Address	Data
4	17	C5
4	16	80

### IC411 (D1) Record System Check

- 10) Select page: 3, address: 01, set data: 0D, and press the PAUSE button.
- 11) Select page: 4, address: IC, set data: FF, and press the PAUSE button.
- 12) Select page: 4, address: 11, set data: 04, , and press the PAUSE button.
- 13) Select page: 4, address: 11, set data: 00, and press the PAUSE button.
- 14) Select page: 4, address: 13, set data: 03, and press the PAUSE button.(Data automatically returns to "00")
- 15) If IC401 (U1) → IC411 (D1) record system is normal, the following data are displayed on page: 4, addresses: 14, 15.

Page	Address	Data
4	15	05
4	14	80

16) If IC411 (D1) → IC701 (IND1) record system is normal, the following data are displayed on page: 4, addresses: 16, 17.

-	Page	Address	Data
	4	17	5E
	4	16	BC

17) If IC805 (A1) → IC411 (D1) record system is normal, the following data are displayed on page: 4, addresses: 18, 19.

Pa	ge .	Address	Data
4		19	76
4		18	В9

18) If IC411 (D1) → IC774 (DX) record system is normal, the following data are displayed on page: 4, addresses: 1A, 1B.

Page	Address	Data
4	1B	EF
4	1A	F7

### 3-6. AUDIO SYSTEM ADJUSTMENTS

### **Connection of Equipment**

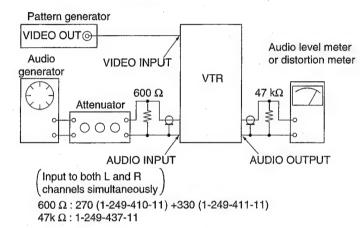


Fig. 5-3-37.

### 1. E-E Level Check

Mode	E-E		
	Audio: 1 kHz -6 dBv Signal		
	Audio input terminal (Left and Right)		
Signal	Video: Color bar signal		
	Video input terminal		
	Audio output terminal (Left and Right)		
Measurement point	(Pin output, Canon output)		
Measuring Instrument	Audio level meter		
	Pin output: -6 ± 3 dBv		
Specified Value	Canon output: +12 ± 3 dBv (NTSC) +10 ± 3 dBv (PAL)		

### Checking method:

- 1) Check that the 1 kHz signal level satisfies the specified value.
- Check that the number in the segment of the level meter (fluorescent display tube) that is lit is 7 for both the L and R channels.

### 2. Playback Level/Indicator Check

Mode	Playback		
Signal	Audio check reference tape		
M	Audio output terminal (Left and Right)		
Measurement point	(Pin output, Canon output)		
Measuring Instrument	Audio level meter and frequency counter		
	32 kHz mode:		
,	1 kHz signal should be output		
	48 kHz mode:		
	1 kHz signal level should be		
	Pin output: +6 ± 1 dBv		
	Canon output: 22 to 24 dBv		
	44.1 kHz mode EMP ON:		
	7.35 kHz signal level is		
·	Pin output: -6 ± 1 dBv		
Specified Value	Canon output: 10 to 12 dBv		
	for 1 kHz signal level in 48 kHz mode		
•	44.1 kHz mode EMP ON:		
	7.35 kHz signal level is		
	Pin output: 0 ± 1 dBv		
	Canon output: 16 to 18 dBv		
	for 1 kHz signal level in 48 kHz mode		
	NS AUDIO lamp should be lit		

### Checking method:

- Check that the playback signal level satisfies the specified value.
- Check that the NS AUDIO lamp of fluorescent display tube is on.
- 3) Confirm that the number of lighting segments of the level meter (fluorescent display tube) is 9 in 32 kHz and 48 kHz modes, or 8 to 9 in 44.1 kHz mode.

### 3. Recording/Playback Check (Audio Lock Mode)

Mode	Recording/Playback (LINE input)		
Signal	Audio: no signal		
	Video:		
	Color bar Video input terminal		
Measurement point	Display data of page: 4, addresses: 50, 58		
Measuring Instrument	of the adjusting remote commander		
	① After playback pause, the changes in the		
	data after 5 frames have been sent		
	continuously must be in the following		
	order.		
Specified Value	"D4"→"D6"→"D6"→"D6"→"D6"		
	→ "D4" (NTSC)		
	"D8"→"D8"→"D8"→"D8"→"D8"		
	→ "D8" (PAL)		
	② NS AUDIO lamp should be lit.		

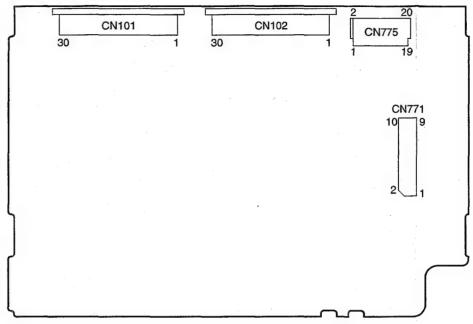
**Note 1:** Check that the AUDIO MODE (menu screen) is Fs48k. **Note 2:** Send the frames using front panel button.

### Checking method:

- 1) With no audio signal being input, record the color bar signal for about 1 minute.
- 2) Playback the recorded part, and set the playback pause mode.
- Select page: 4, address: 50 using the adjusting remote commander.
- 4) Send the frames, so that the display data for page: 4, address: 50 is D4. (NTSC)
- 5) Send 5 frames continuously, and check that the display data of page: 4, address: 50 changes in the order specified.
- 6) Select page: 4, address: 58 using the adjusting remote commander, check that displayed data changes in specified order in the same way.
- 7) Exit the playback pause mode, playback the recorded part, and check that the NS AUDIO lamp (front panel) is off.

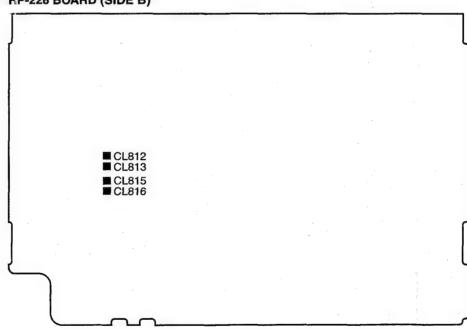
### 3-7. ARRANGEMENT DIAGRAM FOR ADJUSTMENT PARTS

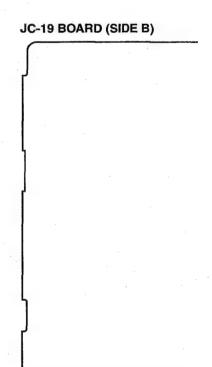
### RP-228 BOARD (SIDE A)

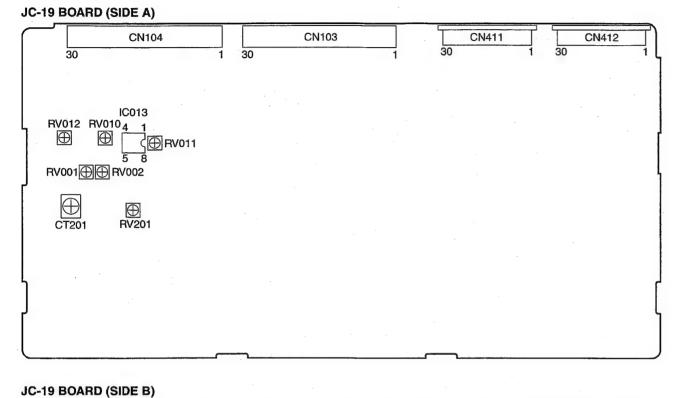


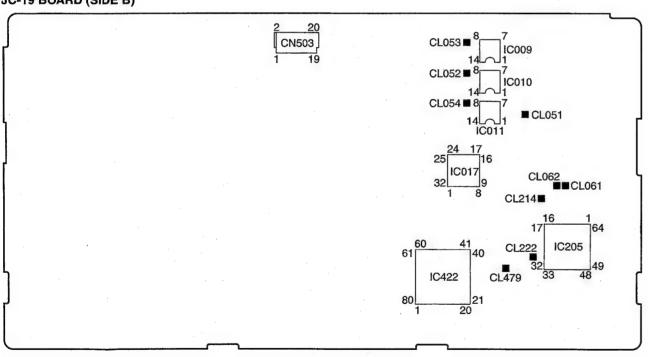
# CN104 30 IC013 RV012 RV0104 1 RV0010 RV002 CT201 RV201

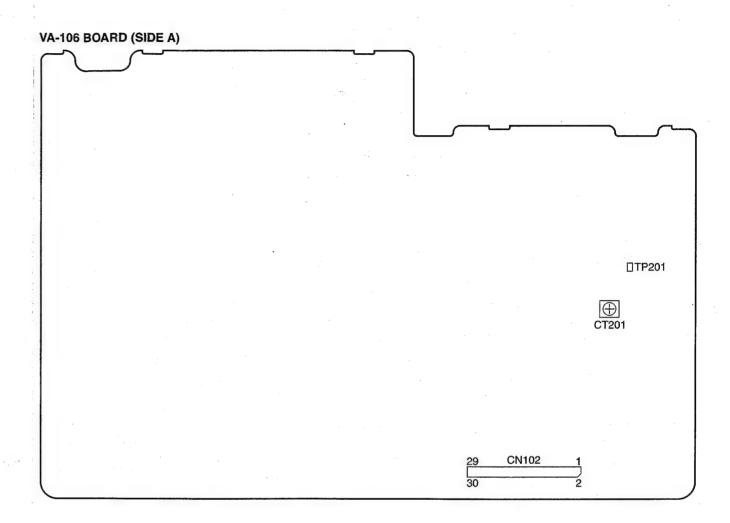
### RP-228 BOARD (SIDE B)

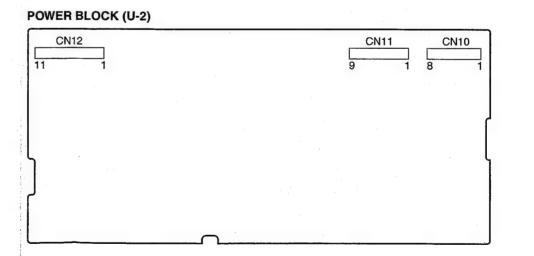












# SECTION 6 REPAIR PARTS LIST

### 6-1. EXPLODED VIEWS

### NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories are given in the last of the electrical parts list.

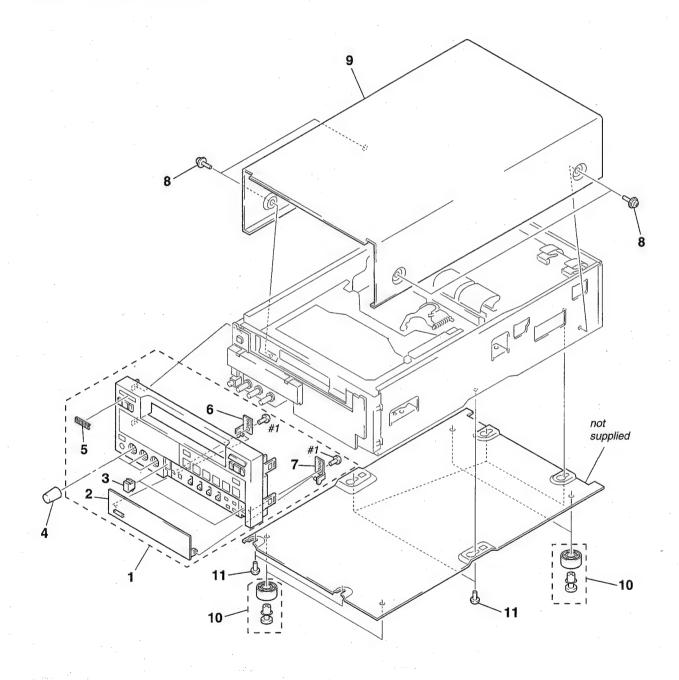
The components identified by mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiquens pour la sécurité

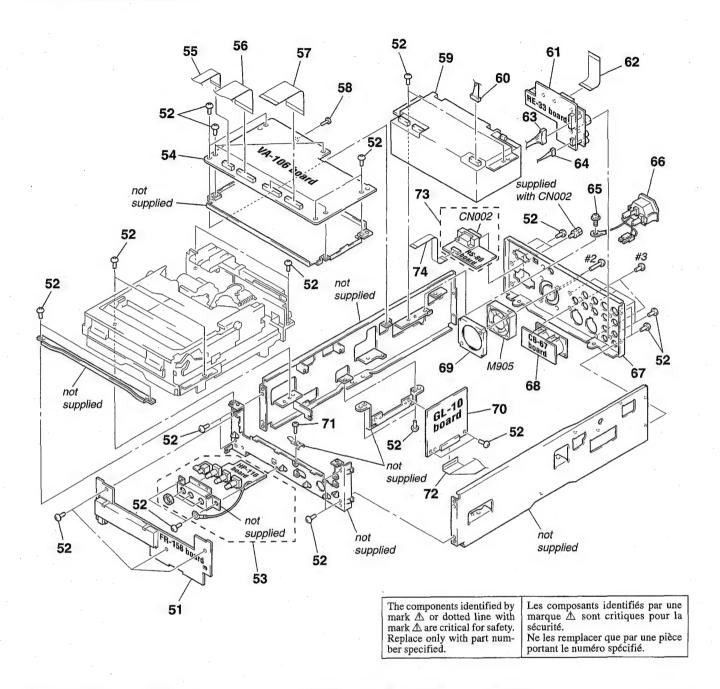
Ne les remplacer que par une pièce portant le numéro spécifié.

### 6-1-1. OVERALL ASSEMBLY



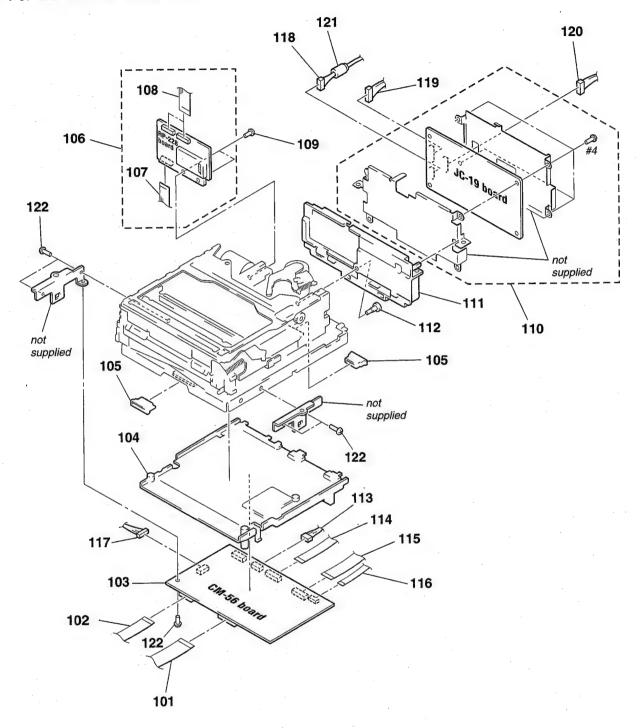
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	<u>Remark</u>
1 1 2 2 3	X-3949-151-1 X-3949-149-1	PANEL ASSY, FRONT (DSR-40) PANEL ASSY (P), FRONT (DSR-40P) DOOR ASSY (DSR-40) DOOR ASSY (P) (DSR-40P) MAGNET		* 6 * 7 8 * 9	X-3948-056-1 4-886-821-01 3-987-158-01	HINGE (L) ASSY, DOOR HINGE (R) ASSY, DOOR SCREW, M3 CASE CASE, UPPER FOOT (FF-004)	
4 5		KNOB, ROTARY EMBLEM (NO.4), SONY		11	3-970-608-41	SUMITITE (B3), +BV	

### 6-1-2. CHASSIS ASSEMBLY



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	A-7073-774-A	FR-158 BOARD, COMPLETE		64	1-959-586-11	HARNESS (CR-111)	
52	3-970-608-41	SUMITITE (B3), +BV		65	3-975-291-01	SCREW (4X6)	
* 53	A-7073-776-A	HP-118 BOARD, COMPLETE (DSR-4	0)	△66	1-958-585-11	HARNESS (AC-227)	
* 53	A-7073-779-A	HP-118 BOARD, COMPLETE (DSR-4	0P)	* 67	3-053-185-12	PANEL, REAR (DSR-40)	
* 54		VA-106 BOARD, COMPLETE (DSR-40		* 67	3-053-185-22	PANEL, REAR (DSR-40P)	
* 54	A-7067-208-A	VA-106 BOARD, COMPLETE (DSR-4)	0P)	* 68		CB-67 BOARD, COMPLETE	
55	1-790-556-11	CABLE, FLAT (FVH-5)		69	3-945-562-01		
56	1-782-825-11	CABLE, FLAT (FVF-8)		* 70		GL-10 BOARD, COMPLETE (DSR-40)	
57	1-782-824-11	CABLE, FLAT (FVJ-7)		* 70	A-7067-207-A	GL-10 BOARD, COMPLETE (DSR-40P	)
58	3-728-266-01	COVER, 2.5 JACK		- 71	3-964-010-01	SCREW M2	
		POINTED DI CON (II 4 #1 0) (DOD 40)		70	4 700 705 44	CARLE ELAT (EVC 1)	
<b></b> 59		POWER BLOCK (U-1/U-2) (DSR-40)		72		CABLE, FLAT (FVG-1)	
<b>1</b> 59 <b>1</b> 59		POWER BLOCK (U-1/U-2) (DSR-40P	")	* 73		RS-80 BOARD, COMPLETE (DSR-40)	
60		HARNESS (VP-73)		* 73		RS-80 BOARD, COMPLETE (DSR-40P	)
* 61		RE-33 BOARD, COMPLETE		74		CABLE, FLAT (FVR-9)	
62	1-790-557-11	CABLE, FLAT (FVR-12)		CN002	1-573-005-21	CONNECTOR, D-SUB 9P	
63	1-959-585-11	HARNESS (HR-62)					
		· ·					

### 6-1-3. MD BLOCK ASSEMBLY



			D t.	Def No	Don't No.	Description	Remark
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	nemark
101	1-776-148-11	CABLE, FLAT (FCM-11) 15P		* 111	3-987-133-01		
102		CABLE, FLAT (FCM-8) 16P		112	3-741-948-01	SCREW (3), SPECIAL (+) TAPPING	
* 103		CM-56 BOARD, COMPLETE (DSR-40)	2)	113	1-958-288-11	HARNESS (CM-130)	
* 103	A-7067-131-A	CM-56 BOARD, COMPLETE (DSR-40)		114	1-776-151-11	CABLE, FLAT (FCM-12) 14P	
* 104	3-987-138-01			115	1-776-147-11	CABLE, FLAT (FCM-10) 15P	
101	0 007 100 07	, , , , , , , , , , , , , , , , , , ,	100				
105	1-764-137-11	CONNECTOR, TRANSLATION 15P		116	1-776-146-11	CABLE, FLAT (FCM-9) 9P	
* 106	A-7067-128-A	RP-228 BOARD, COMPLETE (DSR-40	P)	117	1-958-057-11	HARNESS (CP-79)	
* 106		RP-228 BOARD, COMPLETE (DSR-40		118	1-958-061-11	HARNESS (VJ-103)	
107		CABLE, FLEXIBLE FLAT 30P		119	1-958-058-11	HARNESS (JP-55)	
108		CABLE, FLEXIBLE FLAT (FFC-245)		120	1-959-584-11	HARNESS (JH-51)	
100		,					
109	3-732-817-01	SCREW (2X4.5), TAPPING		121	1-543-793-11	FILTER, CLAMP (FERRITE CORE)	
* 110		JC-19 BOARD, COMPLETE (DSR-40P	)	122	3-970-608-41	SUMITITE (B3), +BV	
* 110		JC-19 BOARD, COMPLETE (DSR-40)					

### 6-1-4. FL CASETTE COMPARTMENT ASSEMBLY

not supplied

1

2

3

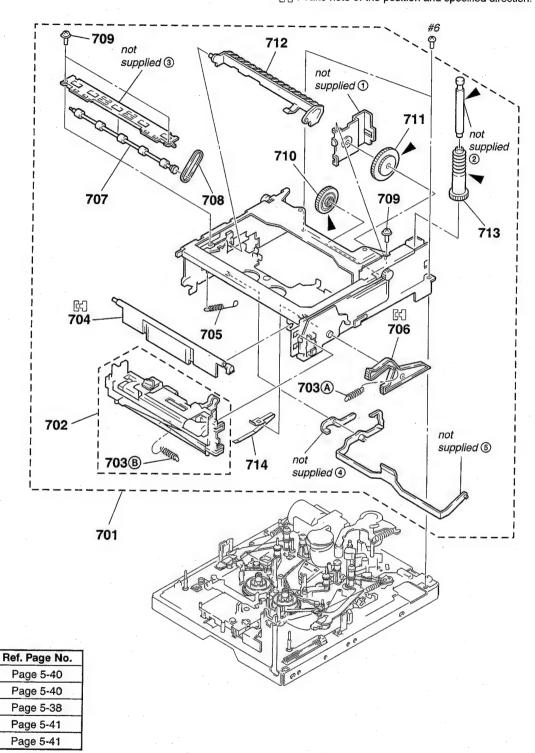
4

<u>⑤</u>

### NOTE FOR INSTALLATION

➤: Place for grease (SG-055G: 7-651-000-09)

☐: Take note of the position and specified direction.



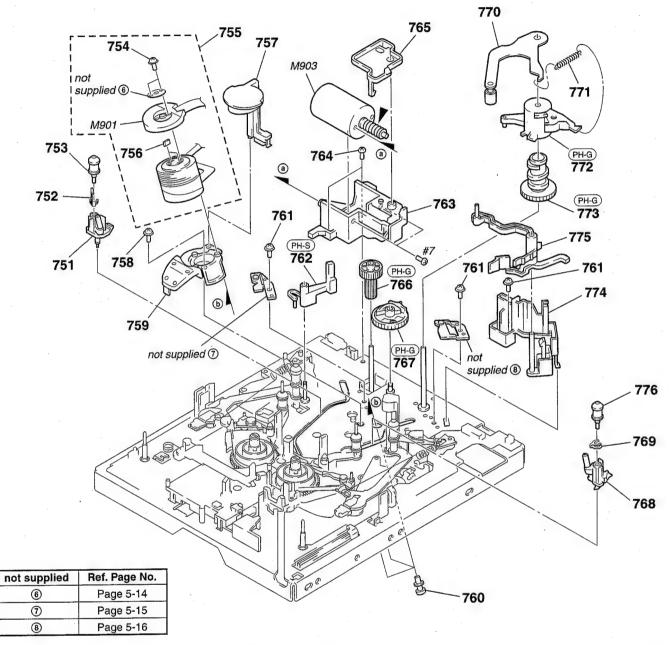
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	<u>R</u> (	<u>emark</u>
701		FL BLOCK ASSY	(5-2)	708	3-967-816-01	BELT, ROLLER		(5-38)
702		SLOAT BLOCK ASSY, C	(5-41)	709	3-947-503-01	SCREW (M1.4X2.5)		
703	3-967-604-01	SPRING (DB), TENSION (A	: 5-40/B: 5-41)	710	3-967-591-01			(5-40)
704	3-967-655-01	DOOR, C	(5-40)	711	3-967-590-01		,	(5-40)
705	3-967-613-01	SPRING (HS), TENSION COIL	(5-41)	712	3-967-653-01	. ,	,	(5-39)
706		ARM, DAMPER	(5-40)	713	3-967-592-01	WORM, C		(5-40)
707	X-3945-780-1	SHAFT ASSY, ROLLER	(5-38)	714		SPRING, SHIFT PLATE	,	5-41)

### 6-1-5. MECHANISM CHASSIS ASSEMBLY (1) (TOP SIDE VIEW (1))

### NOTE FOR INSTALLATION

PH: Phase adjustment

: Place for grease (SG-055G: 7-651-000-09)

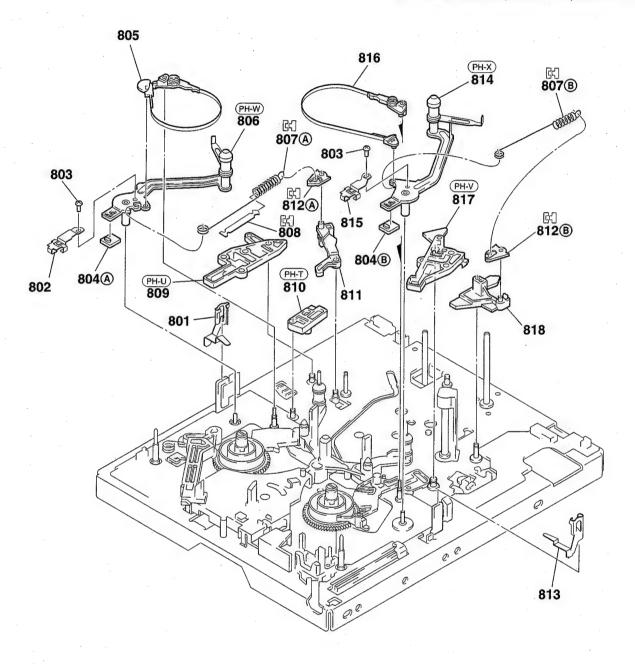


B	ef. No.	Part No.	Description	Ref. page No.	Ref. No.	Part No.	Description	Ref. page No.
	751	X-3945-801-1	BASE ASSY, TG3/4	(5-31)	765	3-967-751-01	COVER, LM	(5-15)
	752	3-967-740-01	SPRING, TG3 LOCK	(5-26, 5-33)	766	3-967-767-01	WHEEL, LM WORM	(5-15)
	753	X-3947-441-1	ROLLER ASSY, TG3	(5-26)	767	3-967-768-01	GEAR, PINCH DRIVING	(5-15)
	754		SCRWE (M1.4X4.5), SPECIAL H	lEAD `	768	X-3945-803-1	BASE ASSY, TG5/6	(5-33)
	755		DRUM ASSY (DEH-08B-R)	(5-14)	769	3-967-741-01	SPRING, TG6 LOCK	(5-26, 5-33)
							·	(5.40)
	756	1-770-363-11	ELASTIC CONNECTOR	(5-14)	770	X-3945-810-1	ARM ASSY, PINCH	(5-16)
	757	3-967-785-01	STOPPER, TAPE	(5-14)	771	3-967-645-01	SPRING (PINCH), TENSION COIL	
	758	3-967-728-01	SCREW (M2 X 5)		772	3-967-676-01	LIMITER, PINCH	(5-16)
	759	3-967-817-01	BASE, DRUM	(5-14)	773	3-967-769-01	GEAR, PINCH CAM	(5-16)
	760	A-7040-449-A	SCREW ASSY	(5-14)	774	3-967-679-01	RETAINER, PINCH	(5-16)
			000514 (144 4)(0.0)		775	3-967-795-03	ARM, HC	(5-16)
	761	3-954-285-01	SCREW (M1.4X0.2)	(E.4E)	775			, ,
	762	X-3945-798-1	ARM ASSY, TC	(5-15)	776	X-3945-802-1	ROLLER ASSY, TG6	(5-26)
	763	3-967-675-01	HOLDER, LM	(5-15)	M901	X-3944-897-2		(5-14)
	764	3-732-817-01	SCREW (2X4.5), TAPPING	Set I	M903	X-3945-784-1	MOTOR ASSY, LM (LOADING)	(5-15)
			* / * /					

### 6-1-6. MECHANISM CHASSIS ASSEMBLY (2) (TOP SIDE VIEW (2))

### NOTE FOR INSTALLATION

PH: Phase adjustment
Take note of the position and specified direction.



Ref. No.	Part No.	Description	Ref. page No.	Ref. No.	Part No.	<u>Description</u> Re	ef. page No.
801	3-967-809-01	RETAINER, TG2	(5-19)	810	3-967-764-01	ARM, TG2 SELECTION	(5-18)
802	3-967-715-01	SPRING, TG2 PLATE	(5-19)	811	3-967-807-01	HOOK, TG2 SPRING	(5-18)
803	3-728-148-11	SCREW (M1.4X2.5), SPECIAL HI	EAD	812	3-967-724-01	ADJUSTOR, SPRING (5-18, A: 5-	9/B: 5-10)
804	3-967-714-01	MAGNET, ET (A: 5-	19/®: 5-520)	813	3-967-810-01	RETAINER, TG7	(5-20)
805	X-3945-792-1	BAND ASSY, S TENSION REGULA	ATOR (5-19)	814	X-3945-806-1	ARM ASSY, TG7	(5-20)
806	X-3945-805-1	ARM ASSY, TG2	(5-19)	815	3-967-694-01	SPRING, TG7 PLATE	(5-20)
807	3-967-726-01	SPRING (TG2), TENSION COIL		816	X-3945-793-1	BAND ASSY, T TENSION REGULATO	OR (5-20)
		(5-18, 🖎:	: 5-9/®:5-10)	817	X-3945-783-1	ARM ASSY, TG7 LOAD	(5-20)
808	3-967-685-01	SHEET, DAMPER	(5-18)	818	3-967-808-01	HOOK, TG7 SPRING	(5-18)
809	X-3945-782-1	ARM ASSY, TG2 LOAD	(5-19)			The first section of	

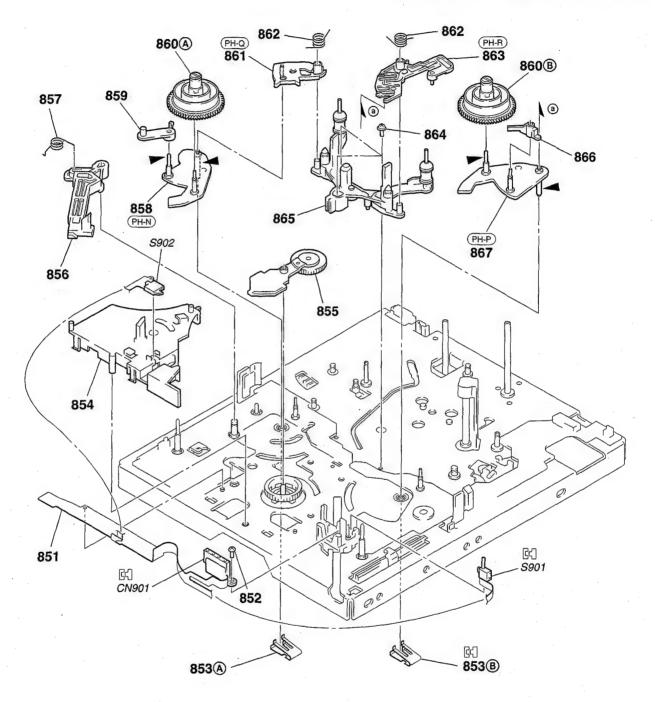
### 6-1-7. MECHANISM CHASSIS ASSEMBLY (3) (TOP SIDE VIEW (3))

### NOTE FOR INSTALLATION

PH-: Phase adjustment

Place for grease (SG-055G: 7-651-000-09)

Take note of the position and specified direction.



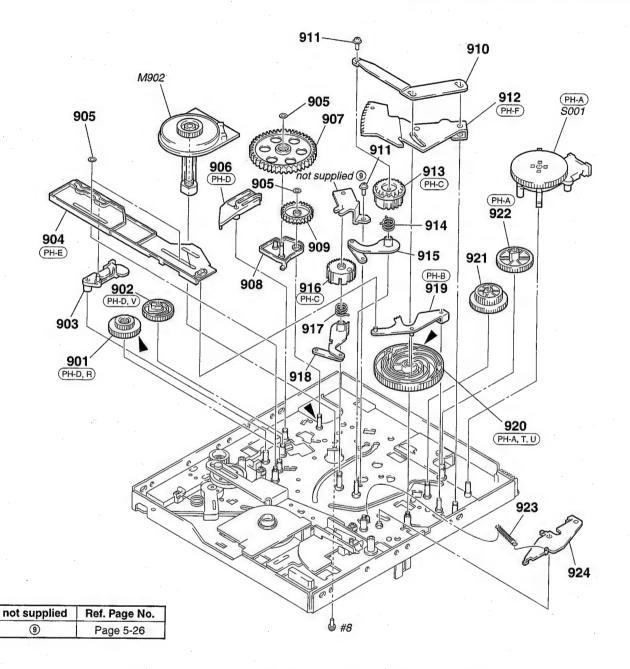
Ref. No.	Part No.	Description	Ref. page No.	Ref. No.	Part No.	Description	Ref. page No.
851	1-658-990-11	FP-406 FLEXIBLE BOARD		861	3-967-776-01	BRAKE, S	(5-25)
852	3-318-201-11	SCREW (B) (1.4X3), TAPPIN	IG	862	3-967-673-01	SPRING, S BRAKE	(5-25)
853	3-967-684-01	SPRING, PLATE (	A: 5-23/B: 5-24)	863	3-967-775-01	RATCHET, T	(5-25)
854	3-967-692-01	GUARD, GOOSENECK	(5-17)	864	3-947-503-01	SCREW (M1.4X2.5)	, ,
855	X-3945-807-1	ARM ASSY, GOOSENECK	(5-17)	865	X-3945-804-1	BASE ASSY, TG18	(5-25)
856	3-967-784-01	ARM, RL	(5-17)	866	3-967-725-01	HOLDER, T REEL	(5-22)
857	3-967-683-01	SPRING, RL PRESS	(5-17)	867	X-3945-815-1	PLATE ASSY, T REEL	(5-24)
858	X-3945-814-1	PLATE ASSY, S REEL	(5-23)	CN901	1-770-312-21	CONNECTOR 4P	(5-35)
859	3-967-680-01	LINK, RL	(5-17)	S901	1-762-551-11	SWITCH, PUSH (REC PROOF)	(5-35)
860	A-7040-441-A	TABLE BLOCK ASSY, REEL (	A: 5-21/B: 5-22)	S902	1-572-288-11	SWITCH, PUSH (C IN SW)	(5-17)

# 6-1-8. MECHANISM CHASSIS ASSEMBLY (4) (BOTTOM SIDE VIEW (1))

### NOTE FOR INSTALLATION

PH-: Phase adjustment

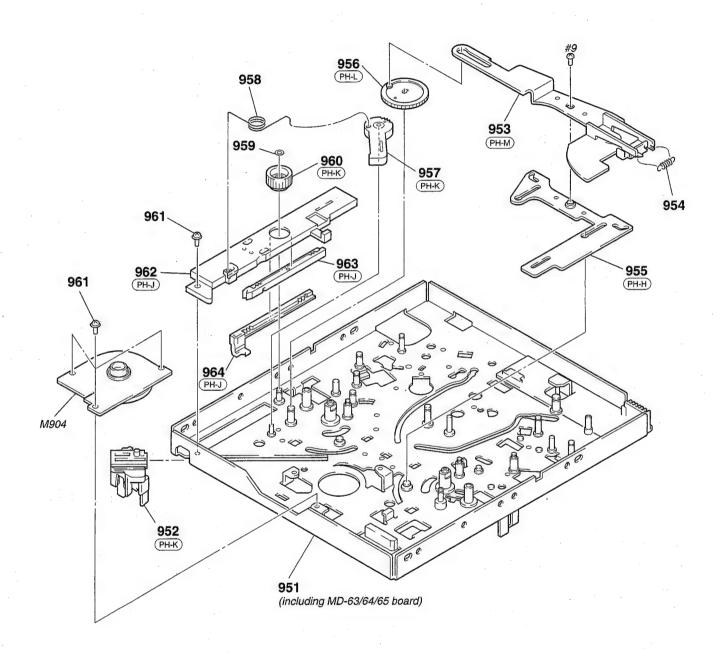
: Place for grease (SG-055G: 7-651-000-09)



Ref. No.	Part No.	<u>Description</u>	Ref. page No.	Ref. No.	Part No.	Description	Ref. page No.
901	3-967-678-01	GEAR, T CAM	(5-28)	914	3-967-746-01	SPRING, TG3/4 LIMITER	(5-31)
902	3-967-756-01	GEAR, TG7 CAM	(5-28)	915	X-3945-794-1	ARM ASSY, TG3/4	(5-31)
903	3-967-763-01	ARM, TG7 SELECTION	(5-28)	916	3-967-792-01	GEAR, TG5/6	(5-33)
904	3-967-677-01	SLIDER, M	(5-28)	917	3-967-748-01		(5-33)
905	3-669-465-01	WASHER (1.5), STOPPER		918	X-3945-795-1	ARM ASSY, TG5/6	(5-33)
906	3-967-829-01	ARM, FL SELECTION	(5-28)	919	3-967-753-01	ARM, M SLIDER	/F 20\
907	3-967-828-01	GEAR, FL JOINT	(5-26)	920	3-967-819-01	CAM, MAIN	(5-28) (5-29)
908	X-3945-813-1	ARM ASSY, FL JOINT	(5-27)	921	3-967-765-01	GEAR, TC	(5-29)
909	3-967-830-01	GEAR, FL RELAY	(5-27)	922		GEAR, RELAY	(5-27)
910	3-967-755-01	RETAINER, GL ARM	(5-28)	923		SPRING (TG2SL), TENSION COIL	(5-29)
911	3-947-503-01	SCREW (M1.4X2.5)		924	X-3945-781-1	ARM ASSY, TG2 SL	(5-29)
912	3-967-754-01	ARM, GL	(5-28)	M902		MOTOR, DC SCD11A/J-N (CAPSTA	
913	3-967-790-01	GEAR, TG3/4	(5-31)	S001		SWITCH, ROTARY (MODE)	(5-27)
							. ,

# 6-1-9. MECHANISM CHASSIS ASSEMBLY (5) (BOTTOM SIDE VIEW (2))

NOTE FOR INSTALLATION PH-: Phase adjustment



Ref. No.	Part No.	Description	Ref. page No.	Ref. No.	Part No.	Description	Ref. page No.
* 951	A-7040-431-A	CHASSIS BLOCK ASSY, ME (including	ECHANICAL MD-63/64/65 board)	958 959		SPRING, MIC PRESS WASHER (1.5), STOPPER	(5-34)
952 953	3-967-690-01 X-3945-789-1	HOLDER, MIC ARM ASSY, RS	(5-35) (5-34)	960 961		GEAR, RACK JOINT SCREW (M1.4X2.5)	(5-35)
954 955	3-967-667-01 X-3945-788-1	TENSION COIL SPRING	(5-34) (5-37)	962	3-967-689-01	HOLDER, RACK	(5-35)
956 957	X-3945-787-1 3-967-783-01	GEAR ASSY, RS	(5-34) (5-34)	963 964 M904	3-967-770-01	RACK (SC) RACK (LC) MOTOR, DC SRD11A/J-N (REEL)	(5-35) (5-35) (5-34)

# CM-56

### 6-2. ELECTRICAL PARTS LIST

### NOTE:

- · Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- · Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS All resistors are in ohms. METAL: Metal-film resistor. METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

SEMICONDUCTORS

In each case, u:  $\mu$ , for example:

uPA.. : μPA. . uA.. : μA..  $uPB..: \mu PB..$ uPC.. : μPC...

- uPD. : μPD. . CAPACITORS uF: μF
- COILS uH: μH

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiquens pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

<u>R</u>	ef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*		A-7073-780-A	CB-67 BOARD, C				C035 C036	1-163-021-91 1-165-319-11	CERAMIC CHIP	0.01uF 0.1uF	10%	50V 50V
					f No. 6 (	000 Series)	0000	1-100-018-11	OLITAWIO OTIII	0.141		30 V
				(110	71.110. 0,0	700 001100)	C038	1-163-031-11	CERAMIC CHIP	0.01uF		50V
			< CONNECTOR >	,			C039	1-124-778-00		22uF	20%	6.3V
			( 001111201011 )				C040	1-164-004-11		0.1uF	10%	25V
*	CN101	1-564-005-11	PIN, CONNECTO	R 6P			C041		CERAMIC CHIP	0.047uF	1070	50V
	CN102		CONNECTOR (XL		(AUDIO	OUTPUT)	C042	1-163-257-11		180PF	5%	50V
	0			, =,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V2.13.11.10 V1.11		• 70	
			< JUMPER RESIS	STOR >			C046	1-165-319-11	CERAMIC CHIP	0.1uF		50V
							C047	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
	JS001	1-216-295-91	SHORT 0				C048	1-164-004-11		0.1uF	10%	25V
	JS004	1-216-295-91					C049	1-164-004-11		0.1uF	10%	25V
	JS006	1-216-295-91	SHORT 0				C051	1-165-319-11	CERAMIC CHIP	0.1uF		50V
	JS009	1-216-295-91										
							C052	1-126-193-11	ELECT	1uF	20%	50V
							C053	1-126-397-11	ELECT	33uF	20%	25V
*		A-7067-131-A	CM-56 BOARD, 0	COMPLETE	(DSR-40	) .	C054	1-127-530-11	ELECT	22uF	20%	20V
*		A-7067-127-A	CM-56 BOARD, 0	COMPLETE	DSR-40	P)	C055	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
			*****	*****	•		C056	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
				(Re	f.No. 2,0	000 Series)			*			
				,		,	C058	1-127-530-11	ELECT	22uF	20%	20V
			< CAPACITOR >				C063	1-164-336-11	CERAMIC CHIP	0.33uF		25V
							C066	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
	C001	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	C067	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
	C004	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	C068		CERAMIC CHIP	0.01uF		50V
	C005		CERAMIC CHIP	0.01uF	10%	50V						
	C006	1-124-779-00		10uF	20%	16V	C073	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
	C007		CERAMIC CHIP	0.1uF		50V	C075		CERAMIC CHIP	22PF	5%	50V
							C076		CERAMIC CHIP	22PF	5%	50V
	C009	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	C078	1-124-779-00		10uF	20%	16V
	C011		CERAMIC CHIP	0.022uF	10%	25V	C079		CERAMIC CHIP	0.001uF	10%	50V
	C017		CERAMIC CHIP	0.0022uF	10%	100V				0.00.00		
	C018		CERAMIC CHIP	0.01uF	10%	50V	C080	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
	C019		CERAMIC CHIP	0.01uF	10%	50V	C081		CERAMIC CHIP	0.1uF	1070	50V
		1 100 021 01	OLI WILLIO OTTO	0.0101	10,70		C082		CERAMIC CHIP	0.01uF		50V
	C020	1-124-779-00	FLECT CHIP	10uF	20%	16V	C083	1-127-530-11		22uF	20%	20V
	C021		CERAMIC CHIP	0.1uF	2070	50V	C086		CERAMIC CHIP	0.01uF	2070	50V
	C022	1-124-779-00		10uF	20%	16V	0000	1 100 001 11	OLI II MINIO OTTI	0.0141		001
	C024		CERAMIC CHIP	10PF	0.5PF	50V	C087	1-127-530-11	FLECT	22uF	20%	20V
	C025	1-124-779-00		10uF	20%	16V	C088	1-126-193-11		1uF	20%	50V
	0023	1-12-7773-00	LLLO1 OIIII	1001	2070	100	C090		CERAMIC CHIP	0.47uF	10%	16V
	C026	-1_165_310_11	CERAMIC CHIP	0.1uF		50V	C091		CERAMIC CHIP	0.47 ur	10 /0	50V
	C027		CERAMIC CHIP	0.1uF	10%	50V	C092	1-126-205-11		47uF	20%	6.3V
	C028		CERAMIC CHIP	10PF	0.5PF	50V	0092	1-120-205-11	ELECT CHIP	47 UF	2070	0.31
					0.5FF		COOS	1 164 004 11	CERAMIC CHIP	0.105	100/	251/
	C029		CERAMIC CHIP	0.1uF		50V	C093			0.1uF	10% 10%	25V
	C030	1-100-031-11	CERAMIC CHIP	0.01uF		50V	C094 C095		CERAMIC CHIP	0.1uF 0.01uF	10%	25V 50V
	CU34	1.165.210.11	CEDAMIC CUID	O tuE		501/			CERAMIC CHIP		100/	
	C031		CERAMIC CHIP	0.1uF	000/	50V	C096			0.1uF	10%	25V
	C032	1-126-193-11		1uF	20%	507	C099	1-103-019-00	CERAMIC CHIP	0.0068uF	10%	50V
	C034	1-163-021-91	CERAIVIIC CHIP	0.01uF	10%	50V I						

# CM-56

**										
Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	<u>Description</u>		Remai
C101	1-163-031-11	CERAMIC CHIP	0.01uF		50V		,	< FILTER >		
C102		CERAMIC CHIP	0.01uF		50V					
C103	1-126-204-11		47uF	20%	16V	FL001	1-233-351-21	FILTER, BAND I		
C104		CERAMIC CHIP	0.001uF	10%	50V	FL002	1-233-350-21	FILTER, BAND	PASS	
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V			. 10 .		
	4 400 004 44	OFFINANCO ONE	0.01		E0\/			< 1C >		
C106	1-163-031-11		0.01uF		50V 50V	IC001	9-750-062-66	IC TC7S66F(T	F85R)	
C107	1-165-319-11		0.1uF 0.047uF		50V 50V	IC001		IC TC74HC08		
C108		CERAMIC CHIP	0.047uF		50V	10002	8-752-888-43			
C111 C112	1-163-031-11 1-165-319-11		0.1uF		50V	IC005	8-759-327-00			
6112	1-100-019-11	CENAIVIIC CHIF	U. Tui		50 V	10006		IC uPC339G2		
C113	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V					
C115		CERAMIC CHIP	0.0082uF	10%	50V	10008	8-759-186-44	IC TC74VHC1	25F(EL)	
C117		CERAMIC CHIP		10%	50V	IC009	8-759-182-89		P-Y-E2	
C118		CERAMIC CHIP	27PF	5%	50V	IC011	8-759-148-05			
C119		CERAMIC CHIP	0.001uF	10%	50V	IC012	8-759-945 <b>-</b> 17		-G-BND-ER	
						IC014	8-759-510-73	IC BA10393F-	-E2	
C120		CERAMIC CHIP	0.1uF	10%	25V					
C121		CERAMIC CHIP	0.1uF		50V	IC016	8-759-510-71	IC BA10358F-		
C122		CERAMIC CHIP	0.0068uF	10%	50V	IC017	8-759-011-65			
C123	1-124-779-00		10uF	20%	16V	IC018	8-759-085-67			
C126	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	IC019	8-759-510-71			
				400/	OFM	IC021	8-759-335-42	IC CXA1793N	-E2	
C128		CERAMIC CHIP	0.1uF	10%	25V	IC022	8-759-339-61	IC LB1897D		
C129		CERAMIC CHIP	0.1uF	10%	25V 50V	10501		IC PQ30RV11		
C133		CERAMIC CHIP	0.01uF	10%	25V	10503	8-759-339-61	IC LB1897D		
C504		CERAMIC CHIP	0.1uF 0.1uF	10%	25V	10303	0-755-555-01	IO EDIOOID		
C505	1-164-004-11	CERAMIC CHIP	U. Tur	10 /0	230			< CO1L >		
C506	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V					
C508	1-126-205-11		47uF	20%	6.3V	L003	1-412-282-41	INDUCTOR	470uH	
C509		CERAMIC CHIP	0.47uF	10%	16V	L004	1-414-398-11		10uH	
C510		CERAMIC CHIP	0.01uF		50V	L005	1-414-398-11		10uH	
C511	1-126-205-11		47uF	20%	6.3V	L006	1-414-398-11		10uH	
0011						L007	1-414-402-11	INDUCTOR	47uH	
C512	1-126-193-11	ELECT	1uF	20%	50V					
C513	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	L008	1-424-522-21		10uH	
C514		CERAMIC CHIP	0.01uF		50V	L010	1-424-522-21		10uH	
C515	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	L011	1-409-535-41		100uH	
						L013	1-424-524-21		47uH	
		< CONNECTOR >				L014	1-414-402-11	אטוטטטווו	47uH	
011004	4 770 000 44	CONNECTOR FF	0/ED0 16D			L501	1-414-402-11	INDUCTOR	47uH	
CN001		CONNECTOR, FFO				L502	1-414-402-11		47uH	
* CN002		CONNECTOR, FF				2002	1 414 402 11	MEDOTON	17 417	
CN003 * CN004	1-730-343-11			301				< IC LINK >		
CN004	1-770-692-11									
UNUUJ	1-770-032-11	OOMINEOTOTI, TT	3/11 0 01			△ PS001	1-532-840-21	LINK, IC (1.25)	A) (DSR-40P)	
* CN006	1-691-074-11	HOUSING, CONN	ECTOR 15F	)				•		
* CN007	1-691-074-11	HOUSING, CONN	ECTOR 15F	)				< TRANSISTOR	R >	
CN008	1-770-697-11									
0						Q001			2SB709A-QRS-TX	
		< DIODE >				Q002		TRANSISTOR		
						Q003		TRANSISTOR		
D001		DIODE MA786-				Q004		TRANSISTOR		
D002		DIODE RD10M-				Q008	8-729-010-25	TRANSISTOR	MSD601-R11	
D004		DIODE SB10-05							HODOOL DT4	
D011		DIODE MA786-				0009		TRANSISTOR		
D012	8-719-026-23	DIODE MA786-	TX			Q012	8-729-208-96	TRANSISTOR	2SA1242-Y(TE16L)	
			-			Q014		TRANSISTOR		
D501		DIODE SB10-05				Q500		TRANSISTOR	2SB709A-QRS-TX 2SB709A-QRS-TX	
D502	8-719-108-24	DIODE MA151A	-1X			Q501	6-729-216-22	HUIGIGINATI	230103M-UN3-1X	
		FUCT				Q502	8_720_208_06	TRANSISTOR	2SA1242-Y(TE16L)	
		< FUSE >				Q502		TRANSISTOR		
A F004	4 EOO 777 04	ELICE MICEO (C	ECUVIDADA	\ (1.25/	(DSB-40)	Q503	8-729-421-19	TRANSISTOR	UN2213-TX	
<b> № F</b> 001	1-032-777-21	FUSE, MICRO (S	LOONDANT	1 (1.20)	1) (DOIT-40)	4004	0 120 721 10	11010101011		

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

# CM-56

Ref. No.	Part No.	Description		•	Remark	Ref. No.	Part No.	Description			Remark
					7.10.1.1.1.1						
		< RESISTOR >				R090	1-216-081-00	METAL CHIP	22K	5%	1/10W
R001	1 016 057 00	METAL CHID	0.01/	EO/	4 (4 0) 44	D004	1 010 001 00	METAL OLUD	0014	<b>50</b> /	4.44.6144
R002	1-216-057-00		2.2K	5%	1/10W	R091	1-216-081-00		22K	5%	1/10W
	1-216-065-91		4.7K	5%	1/10W	R092	1-216-089-91		47K	5%	1/10W
R003	1-216-015-00		39	5%	1/10W	R093	1-216-049-91		1K	5%	1/10W
R005	1-216-057-00		2.2K	5%	1/10W	R094	1-216-671-11		6.8K	0.5%	1/10W
R006	1-216-089-91	RES,CHIP	47K	5%	1/10W	R095	1-216-645-11	METAL CHIP	560	0.5%	1/10W
D000	4 040 040 04	250 01112	414	==.	4.44.						
R009	1-216-049-91		1K	5%	1/10W	R096	1-216-651-11		1K	0.5%	1/10W
R010	1-216-089-91		47K	5%	1/10W	R097	1-216-073-00		10K	5%	1/10W
R011	1-216-089-91		47K	5%	1/10W	R098	1-216-121-91	•	1M	5%	1/10W
R012	1-216-089-91	•	47K	5%	1/10W	R099	1-216-105-91	,	220K	5%	1/10W
R015	1-216-295-91	SHORT	0			R102	1-216-089-91	RES,CHIP	47K	5%	1/10W
5040	4 040 000 04										
R016	1-216-089-91		47K	5%	1/10W	R103	1-216-089-91		47K	5%	1/10W
R017	1-216-295-91		0			R104	1-216-295-91		0		
R018	1-216-089-91		47K	5%	1/10W	R107	1-216-089-91		47K	5%	1/10W
R019	1-216-295-91		0			R108	1-216-295-91		0		
R020	1-216-093-91	RES,CHIP	68K	5%	1/10W	R109	1-216-081-00	METAL CHIP	22K	5%	1/10W
R021			47K	5%	1/10W	R110	1-216-073-00		10K	5%	1/10W
R026	1-216-049-91	,	1K	5%	1/10W	R111	1-216-049-91		1K	5%	1/10W
R027	1-216-089-91		47K	5%	1/1.0W	R112	1-216-081-00		22K	5%	1/10W
R028	1-216-049-91		1K	5%	1/10W	R113	1-216-049-91		1K	5%	1/10W
R029	1-216-049-91	RES,CHIP	. 1K	5%	1/10W	R114	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R030		RES,CHIP	1K	5%	1/10W	R115	1-216-043-91		560	5%	1/10W
R032	1-216-049-91		1K	5%	1/10W	R116	1-216-057-00		2.2K	5%	1/10W
R033	1-216-049-91		1K	5%	1/10W	R117	1-216-043-91	,	560	5%	1/10W
R035	1-216-025-91		100	5%	1/10W	R118	1-216-057-00		2.2K	5%	1/10W
R036	1-216-025-91	RES,CHIP	100	5%	1/10W	R119	1-216-073-00	METAL CHIP	10K	5%	1/10W
R039	1-216-075-00		12K	5%	1/10W	R120	1-216-073-00	METAL CHIP	10K	5%	1/10W
R040	1-216-069-00		6.8K	5%	1/10W	R121	1-219-107-91	RES,CHIP	1.5	5%	1/8W
R046	1-216-069-00		6.8K	5%	1/10W	R122	1-219-107-91	RES,CHIP	1.5	5%	1/8W
R050	1-216-077-00		15K	5%	1/10W	R125	1-219-107-91	RES,CHIP	1.5	5%	1/8W
R051	1-216-073-00	METAL CHIP	10K	5%	1/10W	R126	1-216-049-91	RES,CHIP	1K	5%	1/10W
R052		RES,CHIP	47K	5%	1/10W	R127	1-216-049-91	RES,CHIP	1K	5%	1/10W
R053	1-216-049-91		1K	5%	1/10W	R128	1-216-049-91	RES,CHIP	1K	5%	1/10W
R054	1-216-295-91		0			R129	1-216-049-91	RES,CHIP	1K	5%	1/10W
R055	1-216-049-91		1K	5%	1/10W	R130	1-216-025-91		100	5%	1/10W
R059	1-216-043-91	RES,CHIP	560	5%	1/10W	R131	1-216-025-91	RES,CHIP	100	5%	1/10W
R060	1-216-049-91	*	1K	5%	1/10W	R132	1-216-025-91		100	5%	1/10W
R061	1-216-049-91		1K	5%	1/10W	R133	1-216-075-00	METAL CHIP	12K	5%	1/10W
R063	1-216-049-91	RES,CHIP	1K	5%	1/10W	R134	1-216-072-00	METAL CHIP	9.1K	5%	1/10W
R064	1-216-049-91	RES,CHIP	1K	5%	1/10W	R136	1-216-049-91	RES,CHIP	1K	5%	1/10W
R066	1-216-025-91	RES,CHIP	100	5%	1/10W	R137	1-216-049-91	RES,CHIP	1K	5%	1/10W
R067	1-216-073-00	METAL CHIP	10K	5%	1/10W	R138	1-216-049-91	RES,CHIP	1K	5%	1/10W
R069	1-216-085-00	METAL CHIP	33K	5%	1/10W	R143	1-216-073-00	METAL CHIP	10K	5%	1/10W
R070	1-216-073-00	METAL CHIP	10K	5%	1/10W	R146	1-216-295-91	SHORT	0		
R071	1-216-025-91	RES,CHIP	100	5%	1/10W	R148	1-216-017-91	RES,CHIP	47	5%	1/10W
R075	1-216-049-91	RES,CHIP	1K	5%	1/10W	R153	1-216-295-91	SHORT	0		
R076	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R154	1-216-295-91	SHORT	0		
R077	1-216-025-91	RES,CHIP	100	5%	1/10W	R155	1-216-295-91	SHORT	0		
R078	1-216-049-91	RES,CHIP	1K	5%	1/10W	R158	1-216-121-91	RES,CHIP	1M	5%	1/10W
R079	1-216-073-00	METAL CHIP	10K	5%	1/10W	R161	1-216-295-91	SHORT	0		
R080	1-216-025-91	RES,CHIP	100	5%	1/10W	R164	1-216-672-11	METAL CHIP	7.5K	0.5%	1/10W
R081	1-216-049-91	RES,CHIP	1 K	5%	1/10W	R165	1-216-017-91	RES,CHIP	47	5%	1/10W
	1-216-073-00		10K	5%	1/10W	R167		RES,CHIP		5%	1/10W
	1-216-089-91		47K	5%	1/10W	R168		METAL CHIP		5%	1/10W
	1-216-025-91 I		100	5%	1/10W	R169	1-216-055-00				1/10W
		RES,CHIP	1K	5%	1/10W	R171		METAL CHIP		5%	1/10W
										J. •	
R086	1-216-049-91 F	RES,CHIP	1K	5%	1/10W	R176	1-216-033-00	METAL CHIP	220	5%	1/10W
	1-216-049-91 F		1K	5%	1/10W	R182	1-216-121-91				1/10W
	1-216-049-91 F		1K	5%	1/10W	R193	1-216-079-00				1/10W
	1-216-049-91 F		1K	5%	1/10W	R194	1-216-057-00				1/10W
					•						

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	<b>Description</b>			Remark
R195	1-216-079-00	METAL CHIP	18K	5%	1/10W	R528	1-216-295-91	SHORT	0		
R196	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R529	1-219-107-91	RES CHIP	1.5	5%	1/8W
	1-216-073-00		10K	5%	1/10W	R530	1-219-107-91		1.5	5%	1/8W
R201					1/10W	R531	1-219-107-91		1.5	5%	1/8W
R203	1-216-121-91		1M	5%							
R206	1-216-073-00		10K	5%	1/10W	R535	1-216-089-91		47K	5%	1/10W
R207	1-216-073-00	METAL CHIP	10K	5%	1/10W	R536	1-216-295-91	SHORT	0		
R208	1-216-045-00	METAL CHIP	680	5%	1/10W	R537	1-216-295-91	SHORT	0		
R209	1-216-045-00		680	5%	1/10W	R538	1-216-295-91	SHORT	0		
R211	1-216-671-11		6.8K	0.5%	1/10W	R541	1-216-073-00		10K	5%	1/10W
R212	1-216-645-11		560	0.5%	1/10W	R542	1-216-073-00		10K	5%	1/10W
R213	1-216-651-11		1K	0.5%	1/10W	R543	1-216-025-91		100	5%	1/10W
			4.014	F0/	44011	DE 45	4 040 005 04	DEC OUID	4 71/	E0/	1/10\4/
R214	1-216-073-00		10K	5%	1/10W	R545	1-216-065-91		4.7K	5%	1/10W
R215	1-216-105-91		220K	5%	1/10W	R546	1-216-073-00		10K	5%	1/10W
R216	1-216-081-00		22K	5%	1/10W	R547	1-216-025-91		100	5%	1/10W
R217	1-216-073-00		10K	5%	1/10W	R549	1-216-065-91	,	4.7K	5%	1/10W
R218	1-216-081-00	METAL CHIP	22K	5%	1/10W	R550	1-216-073-00	METAL CHIP	10K	5%	1/10W
R220	1-216-043-91	RES.CHIP	560	5%	1/10W	R551	1-216-089-91	RES,CHIP	47K	5%	1/10W
R221	1-216-057-00		2.2K	5%	1/10W	R552	1-216-089-91		47K	5%	1/10W
R225	1-216-295-91		0			R553	1-216-073-00		10K	5%	1/10W
R227	1-216-057-00		2.2K	5%	1/10W	R554	1-216-073-00		10K	5%	1/10W
R228	1-216-037-00		560	5%	1/10W	R555	1-216-073-00		10K	5%	1/10W
							4 040 007 01	DEC ALUE	400	E0/	4 /4 0) 4 /
R229	1-216-048-00		910	5%	1/10W	R556	1-216-025-91		100	5%	1/10W
R230	1-216-071-00		8.2K	5%	1/10W	R560	1-216-065-91		4.7K	5%	1/10W
R231	1-216-048-00	METAL CHIP	910	5%	1/10W	R561	1-216-049-91		1K	5%	1/10W
R232	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R562	1-216-049-91	RES,CHIP	1K	5%	1/10W
R233	1-216-089-91	RES,CHIP	47K	5%	1/10W	R563	1-216-049-91	RES,CHIP	1K	5%	1/10W
R234	1-216-075-00	METAL CHIP	12K	5%	1/10W	R564	1-216-049-91	RES CHIP	1K	5%	1/10W
R235	1-216-072-00		9.1K	5%	1/10W	R565	1-216-049-91		1K	5%	1/10W
R241	1-216-073-00		10K	5%	1/10W	R566	1-216-049-91		1K	5%	1/10W
			15K	5%	1/10W	R567	1-216-017-91		47	5%	1/10W
R244 R245	1-216-077-00 1-217-671-11		1	5%	1/10W	R568	1-216-017-91		47	5%	1/10W
11210											
R247	1-216-073-00	METAL CHIP	10K	5%	1/10W	R569	1-216-017 <b>-</b> 91	*	47	5%	1/10W
R248	1-217-671-11	METAL CHIP	1	5%	1/10W	R570	1-216-017-91	RES,CHIP	47	5%	1/10W
R249	1-217-671-11	METAL CHIP	1	5%	1/10W	R572	1-216-295-91	SHORT	0		
R250	1-217-671-11	METAL CHIP	1	5%	1/10W	R573	1-216-049-91	RES, CHIP	1K	5%	1/10W
R253	1-216-073-00		10K	5%	1/10W	R574	1-216-049-91		1K	5%	1/10W
DOEC	1 016 075 00	METAL CHID	12K	5%	1/10W	R575	1-216-049-91	DEC CHID	1K	5%	1/10W
R256	1-216-075-00					1	1-216-295-91		0 (DSR-		171000
R257	1-216-079-00		18K	5%	1/10W	R901					
R259	1-216-295-91		0		4 44 63 44	R902	1-216-295-91	SHURT	0 (DSR-	40P)	
R262 R268	1-216-093-91 1-216-097-91		68K 100K	5% 5%	1/10W 1/10W			< VIBRATOR >			•
n200	1-210-097-91	neo,onir	1001	J /0	171000			< VIBILATION >			
R270	1-216-073-00		10K	5%	1/10W	X001	1-760-655-21	VIBRATOR, CRY	STAL (20N	/IHz)	
R271	1-216-073-00		10K	5%	1/10W						
R274	1-216-073-00	METAL CHIP	10K	5%	1/10W						
R275	1-216-099-00	METAL CHIP	120K	5%	1/10W			FP-406 BOARD,	COMPLET	Ε	
R283	1-216-089-91		47K	5%	1/10W			******			200
D004	1 010 005 04	DEC-CLUD	100	50/	1/1/00/				(F	Ref No. 8,	000 Series)
R284	1-216-025-91		100	5%	1/10W	1	1 650 000 11	ED-106 ELEVIDI	E BOADD		
R285	1-216-025-91		100	5%	1/10W			FP-406 FLEXIBL		INC	
R286	1-216-049-91		1K	5%	1/10W			SCREW (B) (1.4	AS), IAPP	Ma	
R290	1-216-055-00		1.8K	5%	1/10W			HOLDER, MIC			
R506	1-216-049-91	RES,CHIP	1K	5%	1/10W		3-970-665-01	CLEANER, MIC			
R516	1-216-295-91	SHORT	0					< CONNECTOR :	>		
R517	1-216-665-11		3.9K	0.5%	1/10W						
R518	1-216-655-11		1.5K	0.5%	1/10W	CN901	1-770-312-21	CONNECTOR 4P	)		
R519	1-216-089-91		47K	5%	1/10W						
			47K	5%	1/10W			< SWITCH >			
R520	1-216-089-91	HEO,UTIF	411	J /0	1/1000			COMMON			
R521	1-216-089-91	RES,CHIP	47K	5%	1/10W	S901		SWITCH, PUSH		OF)	
R524	1-216-089-91	RES,CHIP	47K	5%	1/10W	S902	1-572-288-11	SWITCH, PUSH	(C IN)		
R525	1-216-025-91		100	5%	1/10W						أكسنا
R526	1-216-025-91		100	5%	1/10W						

# FR-158

Ref. No.	<u>Part No.</u> A-7073-774-A	Description Remark FR-158 BOARD, COMPLETE			Ref. No.	Part No.	Description < FLUORECEN	<u>Remark</u>						
		**************************************			ND101	1-517-769-11	TUBE, FLUORESCENT INDICATOR							
*	3-987-166-01	HOLDER, INDICATION TUBE						< TRANSISTO	VSISTOR >					
		< BUZZER >				Q101		TRANSISTOR UN2113-TX						
BZ101	1-529-104-11	BUZZER, PIEZOE	LECTRIC			Q103 Q104 Q105	8-729-421-19	TRANSISTOR TRANSISTOR TRANSISTOR	UN2213-TX					
		< CAPACITOR >				Q106	8-729-421-19	TRANSISTOR	UN2213-TX					
C109 C110	1-164-156-11	TANTAL. CHIP CERAMIC CHIP	33uF 0.1uF	20%	10V 25V	Q107 Q110		TRANSISTOR TRANSISTOR			`			
C111 C112		CERAMIC CHIP TANTAL. CHIP	0.1uF 33uF	20%	25V 10V			< RESISTOR >						
C115	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V	D402	1 016 040 11	METAL CHID	ECV	E9/	1/16W			
C117	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V	R103 R104	1-216-842-11 1-216-813-11		56K 220	5% 5%	1/16W			
C118		CERAMIC CHIP	1000PF	5%	50V	R105	1-216-811-11		150	5%	1/16W			
						R106	1-216-841-11		47K	5%	1/16W			
		< CONNECTOR >				R107	1-216-841-11	METAL CHIP	47K	5%	1/16W			
CN104	1-774-770-11	CONNECTOR, FF	C/FPC 30P			R108	1-216-841-11	METAL CHIP	47K	5%	1/16W			
	· .					R109	1-216-841-11		47K	5%	1/16W			
		< DIODE >				R110	1-216-841-11		47K	5%	1/16W			
D101	8-710-104-34	DIODE MA151W	/Δ-ΤΧ			R111 R112	1-216-841-11 1-216-841-11		47K 47K	5% 5%	1/16W 1/16W			
D102		DIODE RD6.2M				*****	1 210 011 11	ME INC OIM		0,0	.,			
D108	8-719-061-58	DIODE CL-200Y	-C-TU (DUI			R113	1-216-841-11		47K	5%	1/16W			
D109		DIODE CL-200H				R114	1-216-837-11		22K	5%	1/16W			
D110	8-719-061-58	DIODE CL-200Y	-C-TU (PAL	JSE)		R115	1-216-837-11		22K 10	5%	1/16W 1/16W			
D111	8-710-061-58	DIODE CL-200Y	C_TIL (FE)			R119 R120	1-216-797-11 1-216-797-11		10	5% 5%	1/16W			
D112		DIODE CL-200Y		_AY)		11120	1 210 101 11	WEINE OIII	10		1,7011			
D113		DIODE CL-155U			BY)	R121	1-216-797-11		10	5%	1/16W			
D114		DIODE RD6.2M				R122	1-216-797-11		10	5%	1/16W			
D115	8-719-106-08	DIODE RD6.2M	-T1B2			R123	1-216-864-11		0	5% 5%	1/16W			
D116	9-710-106-09	DIODE RD6.2M	T1D2			R124 R125	1-216-864-11 1-216-833-11		0 10K	5% 5%	1/16W 1/16W			
D117		DIODE CL-200Y		V)		11120	1210 000 11	WILLIAL OTH	TOIL	070	1,1011			
			•	,		R126	1-216-833-11		10K	5%	1/16W			
		< FERRITE BEAD	>			R129	1-216-837-11		22K	5%	1/16W			
50404		rrn ni <del>v</del> r	01111			R130	1-216-833-11		10K 10K	5% 5%	1/16W 1/16W			
FB101 FB102	1-414-445-11 1-414-445-11		OUH OUH			R131 R138	1-216-833-11 1-216-825-11		2.2K	5%	1/16W			
FB103	1-414-445-11		OUH			11100	1 210 020 11	WEINE OIM	L.L.	0,0	1, 1011			
FB104	1-414-445-11		OUH			R139	1-216-837-11		22K	5%	1/16W			
FB105	1-414-445-11	FERRITE	0UH			R140	1-216-833-11		10K	5%	1/16W			
						R141	1-216-829-11		4.7K	5%	1/16W			
FB106	1-414-445-11 1-414-445-11		OUH OUH			R142 R143	1-216-827-11 1-216-825-11		3.3K 2.2K	5% 5%	1/16W 1/16W			
FB107 FB108	1-414-445-11		OUH			11140	1-230-025 11	WEIAE OIM	6.61	070	171041			
FB109	1-414-445-11		OUH			R145	1-216-797-11	METAL CHIP	10	5%	1/16W			
FB110	1-414-445-11	FERRITE	0UH			R146	1-216-797-11		10	5%	1/16W			
						R147	1-216-797-11		10	5%	1/16W			
FB111	1-414-445-11	INDUCTOR CHIP	OUH OUH			R148 R149	1-216-797-11 1-216-821-11		10 1K	5% 5%	1/16W 1/16W			
FB112 FB113		INDUCTOR CHIP				N 143	1-210-021-11	WILIAL OITH	IK	J /0	1/1000			
FB114		INDUCTOR CHIP				R151	1-216-813-11	METAL CHIP	220	5%	1/16W			
FB115		INDUCTOR CHIP				R152	1-216-814-11	METAL CHIP	270	5%	1/16W			
		MIDURETEE SINE	01111			R153	1-216-813-11		220	5%	1/16W			
FB116 FB117		INDUCTOR CHIP				R154 R155	1-216-813-11 1-216-811-11		220 150	5% 5%	1/16W 1/16W			
1.0111	1-414-225-11	אוואט ויטו טטעאוו	0011			71100			, 50	0.70				
		< IC >	•			R156	1-216-813-11	METAL CHIP	220	5%	1/16W			
IC103 IC104		IC M66312FP-T IC uPD16311G0						< SWITCH >						
						S101		SWITCH, TACT		1075				
						S102 S104	1-572-272-11 1-572-272-11	SWITCH, SLIDI SWITCH, SLIDI		IOTE)				

B	ef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			<u>Remark</u>
	S105		SWITCH, SLIDE (	AUDIO MO	NITOR)		C1138	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
	S106	1-762-333-21	SWITCH, TACTILE	(INPUT SI	ELECT)		C1139		CERAMIC CHIP	0.1uF	10%	16V
	0.407	4 570 040 44	OMITOU OLIDE (	OOUNTED (	OFLEGT)		C1140 C1141	1-126-204-11	CERAMIC CHIP	47uF 0.1uF	20% 10%	16V 16V
	S107		SWITCH, SLIDE ( SWITCH, TACTILE				C1141	1-107-826-91		0.1uF 47uF	20%	6.3V
	S108 S109		SWITCH, TACTILE			,	01142	1-120-200-11	LLLOT OTT	7741	2070	0.01
	0.00	1 002 002 11	· · · · · · · · · · · · · · · · · · ·			R RESET)	C1143	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
	S111		SWITCH, TACTILE				C1144	1-107-826-91		0.1uF	10%	16V
	S112	1-692-682-11	SWITCH, TACTILI	(RUBBER	(REW)		C1145		CERAMIC CHIP	0.1uF	10%	16V 16V
	S113	1 600 600 11	SWITCH, TACTILE	/DIIDDED	\ /D! AV\		C1146 C1147		CERAMIC CHIP	0.1uF 0.1uF	10% 10%	16V 16V
	S113		SWITCH, TACTILE				01147	1 107 020 31	OLIVIANIO OI III	0.141	1070	101
	S115		SWITCH, TACTILE			Ξ)	C1148	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	S116		SWITCH, TACTILI		) (REC)		C1149	1-107-826-91		0.1uF	10%	16V
	S117	1-762-333-21	SWITCH, TACTILI	E (DOWN)			C1150 C1151		CERAMIC CHIP	18PF 22PF	5% 5%	50V 50V
	S118	1_762_333_21	SWITCH, TACTILI	= (UP)			C1151		TANTAL. CHIP	6.8uF	20%	10V
	S119		SWITCH, TACTILI				01102	, 10, 000 11	, , , , , , , , , , , , , , , , , , , ,	0.00.		,,,,
	S120	1-762-333-21	SWITCH, TACTILE	(MENU)			C1153	1-107-826-91		0.1uF	10%	16V
	S121		SWITCH, TACTILI			ANDBY)	C1154	1-107-826-91		0.1uF	10%	16V
	S122	1-692-682-11	SWITCH, TACTILI	(ROBBER	) (DUP)		C1155 C1156	1-107-826-91 1-107-826-91		0.1uF 0.1uF	10% 10%	16V 16V
-							C1157	1-162-918-11		18PF	5%	50V
*		A-7067-205-A	GL-10 BOARD, CO	OMPLETE (	DSR-40)							
*		A-7067-207-A	GL-10 BOARD, CO		DSR-40F	2)	C1158	1-164-360-11		0.1uF		16V
			******		N- 00 0	00 0	C1159	1-126-204-11	ELECT CHIP CERAMIC CHIP	47uF 0.1uF	20% 10%	16V 16V
				(Hei.	.140. 20,0	00 Series)	C1160 C1161	1-107-826-91		0.1uF	10%	16V
			< CAPACITOR >				C1162	1-107-826-91		0.1uF	10%	16V
	C1101		CERAMIC CHIP	0.01uF	10%	25V	C1163		CERAMIC CHIP	22PF	5%	50V
	C1102	1-126-205-11		47uF	20%	6.3V	C1164	1-104-850-11	TANTAL. CHIP TANTAL. CHIP	6.8uF 6.8uF	20% 20%	10V 10V
	C1103 C1104		CERAMIC CHIP	1uF 0.1uF	10% 10%	10V 16V	C1165 C1166	1-104-850-11 1-126-396-11		47uF	20%	16V
	C1104		CERAMIC CHIP	0.47uF	10%	16V	C1167	1-107-826-91		0.1uF	10%	16V
	C1106		TANTALUM CHIP		20%	10V	C1168	1-107-826-91		0.1uF	10%	16V
	C1107		CERAMIC CHIP	0.01uF 47uF	10% 20%	25V 6.3V	C1169 C1170	1-164-360-11	CERAMIC CHIP	0.1uF 0.1uF	10%	16V 16V
	C1108 C1109	1-126-205-11 1-126-204-11		47uF	20%	16V	C1171	1-164-360-11		0.1uF	1070	16V
	C1110		CERAMIC CHIP	0.1uF	10%	16V	C1172	1-107-826-91		0.1uF	10%	16V
	C1111		CERAMIC CHIP	150PF	5%	50V	C1173	1-164-360-11 1-126-392-11	CERAMIC CHIP	0.1uF 100uF	20%	16V 6.3V
	C1112 C1113	1-107-826-91	CERAMIC CHIP	0.1uF 47uF	10% 20%	16V 6.3V	C1174 C1175		CERAMIC CHIP	0.1uF	10%	16V
	C1114		CERAMIC CHIP	47PF	5%	50V	C1176		CERAMIC CHIP	0.1uF	10%	16V
	C1115		CERAMIC CHIP	0.1uF	10%	16V	C1177		TANTAL. CHIP	6.8uF	20%	10V
					****		044770	4 400 000 44	EL FOT OLUB	47. 5	000/	401/
	C1116	1-126-205-11		47uF	20% 10%	6.3V 16V	C1178 C1179	1-126-396-11	CERAMIC CHIP	47uF 10PF	20% 0.5PF	16V 50V
	C1117 C1118		CERAMIC CHIP CERAMIC CHIP	0.1uF 33PF	5%	50V	C1179	1-126-206-11		100uF	20%	6.3V
	C1119		CERAMIC CHIP	33PF	5%	50V	C1181	1-126-204-11		47uF	20%	16V
	C1120		CERAMIC CHIP	0.22uF	10%	10V	C1182	1-164-360-11	CERAMIC CHIP	0.1uF		16V
			0554440 01115	0.04 5	100/	051/	04400	4 400 045 44	OFDAMAIO OLUB	1000	0.505	EOV
	C1121		CERAMIC CHIP	0.01uF 0.01uF	10% 10%	25V 25V	C1183 C1184		CERAMIC CHIP CERAMIC CHIP	10PF 0.1uF	0.5PF	50V 16V
	C1122 C1123		CERAMIC CHIP	0.01uF	10%	16V	C1185		CERAMIC CHIP	0.1uF	10%	16V
	C1124	1-126-205-11		47uF	20%	6.3V	C1186		CERAMIC CHIP	0.1uF	10%	16V
	C1125		CERAMIC CHIP	0.001uF	10%	50V						
		•				(DSR-40)			< CONNECTOR >			
	C1127	1_107_826_01	CERAMIC CHIP	0.1uF	10%	16V	CN1001	1-774-666-11	CONNECTOR, FFO	C/EPC 30P		
	C1127		CERAMIC CHIP	0.1uF	10%	16V	0111001	1 774 000 11	ODINICEOTOR, TT	3,11 0 001		
	C1130		CERAMIC CHIP	1uF		10V			< DIODE >			
	C1131		CERAMIC CHIP	0.1uF	10%	16V		0 740 070 04	D1005 111444	'(a) 0a	-	
	C1132	1-135-177-21	TANTALUM CHIP 1uF		20%	20V	D1101 D1102		DIODE MA111-( DIODE MA111-(			
	C1133	1-162-070-11	CERAMIC CHIP	0.01uF	10%	25V	D1102		DIODE MA111-(			
			CERAMIC CHIP	0.1uF	10%	16V	200	3				
	C1135	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V			< FERRITE BEAD	>		
	C1136		CERAMIC CHIP	220PF	2%	50V	ED1404	1_111 115 11	CEDDITE	UIII		
	C1137	1-104-850-11	TANTAL. CHIP	6.8uF	20%	10V	1 181101	1-414-445-11	FERRISE	0UH		

# GL-10

		•								
Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			<u>Remark</u>
	2 1-414-445-11		JH				< TRANSISTOR	}>		
	3 1-414-445-11		JH							
FB110	4 1-414-445-11	FERRITE OL	JH	l	Q1101	8-729-427-83	TRANSISTOR	XP6501-TXE		
. FB110	5 1-414-445-11	FERRITE OL	JH .			8-729-905-35	TRANSISTOR	2SC4081T100	6R /2V4	
ED 440		EEDDITE 01	***		Q1103 Q1104	8-729-141-53	TRANSISTOR TRANSISTOR	25A94-11A2A	\3∧4  06-0R	
FB110	6 1-414-445-11 7 1-414-445-11		JH JH		Q1104 Q1105	8-729-026-52	TRANSISTOR	2SA1576A-T1	106-R	
FR110	8 1-414-445-11		JH.							
10110	0 1 414 110 11	12,,,,,,			Q1106	8-729-026-52	TRANSISTOR	2SA1576A-T	106-R	
		< IC >					DECLOTOR.			
10440	0 750 007 07	IO I MATORIAN					< RESISTOR >			
	8-759-987-27 8-759-523-78	IC TC74VHC00FT(E			R1101	1-216-821-11	METAL CHIP	1K	5%	1/16W
		IC TC74VHC02FT(E			R1102	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
IC110	8-759-523-97	IC TC74VHC123AF	T(EL)		R1103	1-216-821-11		1K	5%	1/16W
IC110	8-759-523-97	IC TC74VHC123AF	T(EL) (DSR-40)		R1104 R1105	1-216-825-11 1-216-825-11		2.2K 2.2K	5% 5%	1/16W 1/16W
10440	0 750 035 00	IC TC7S02F(TE85R	·\		KIIUS	1-210-020-11	WIETAL OTH	2.21	3.70	1/1044
IC110		IC TC74VHC393FT(			R1106	1-216-825-11		2.2K	5%	1/16W
IC110	8-759-524-19	IC TC74VHC164FT(	(EL)		R1107	1-216-839-11		33K	5%	1/16W
IC110	8-752-335-47	IC CXD1216M-T6		· .	R1108	1-216-825-11		2.2K	5%	1/16W
IC111	8-759-523-78	IC TC74VHC00FT(E	EL)		R1109 R1110	1-216-829-11 1-216-851-11		4.7K 330K	5% 5%	1/16W 1/16W
10111	9.750.594.10	IC TC74VHC164FT(	(FL) (DSR-40)		niiiu	1-210-031-11	WEIAL OIII	OOOK	0 70	
10111	8-759-523-02	IC TC74HC4053AF	T(EL)		R1111	1-216-849-11		220K	5%	1/16W
IC111	5 8-759-524-48	IC TC74VHC393FT	(EL)		R1112	1-218-893-11		82K	0.50%	
IC111	8-759-523-97	IC TC74VHC123AF	T(EL)		R1113	1-218-895-11		100K	0.50% 5%	1/16W 1/16W
IC111	7 8-759-524-19	IC TC74VHC164FT	(EL)			1-216-821-11 1-216-864-11		1K 0	5%	1/16W
10111	0 0.750_510_71	IC uPC358G2-E2			פווות	1-210-004-11	MILIAL OIII	U		(DSR-40)
IC111	9 8-759-510-71	IC uPC358G2-E2								
IC112	8-759-523-78	IC TC74VHC00FT(E	EL)		R1116	1-216-864-11	METAL CHIP	0	5%	1/16W
IC112	1 8-759-524-27	IC TC74VHC244FT	(EL)		D4447	4 040 005 44	DEC CIND	100K	0.50%	DSR-40P)
IC112	2 8-759-524-18	IC TC74VHC163FT	(EL)		R1117 R1118	1-218-895-11 1-216-864-11		0	5%	1/16W
IC112	3 8-750-524-19	IC TC74VHC164FT	(FL)		''''	1 210 001 11	mente onn	•		(DSR-40)
IC112	4 8-752-341-58	IC CXD1217Q-T4	(22)							
IC112	5 8-759-524-18	IC TC74VHC163FT	(EL)		R1119	1-216-864-11	METAL CHIP	0	5%	1/16W
IC112	6 8-759-491-46	IC TC74VHC04FT(E	EL)		R1120	1-218-871-11	DEC CHID	10K		DSR-40P) 1/16W
IC112	7 8-759-523-95	IC TC74VHC74FT(E	EL)		R1121	1-216-837-11		22K	5%	1/16W
10112	8 8-759-523-97	IC TC74VHC123AF	T(EL)			, 2,0 00,				(DSR-40)
IC112	9 8-759-524-19	IC TC74VHC164FT	(EL)					:	÷=.	4 (4 0) 14
IC113	0 8-759-031-84	IC TC7S04F(TE85F	R)		R1121	1-216-843-11	METAL CHIP	68K	5%	1/16W DSR-40P)
IC113	1 8-759-524-19	IC TC74VHC164FT IC uPC358G2-E2	(EL)		R1122	1-216-864-11	METAL CHIP	0	5%	1/16W
10113	2 . 0-/09-010-/1	10 UF 000002-L2			111122	, 2,0 00				DSR-40P)
IC113	3 8-759-523-97	IC TC74VHC123AF	T(EL)		R1123	1-216-864-11	METAL CHIP	0	5%	1/16W
IC113	4 8-759-524-19	IC TC74VHC164FT	(EL)							(DSR-40)
IC113	5 8-759-195-81	IC TC7S86FU(TE85	5R)		R1124	1-216-864-11	METAL CHIP	0	5%	1/16W
10113	6 8-759-182-88	IC uPC358G2-E2			1 11124	1-210-004-11	WEINE OIM			DSR-40P)
10113	7 0-759-510-71	10 01 000002 12	4.3		R1125	1-216-864-11	METAL CHIP	0	5%	1/16W
IC113	8 8-759-523-96	IC TC74VHC86FT(I	EL)							DSR-40P)
		IC TC7S08F(TE85F	₹)		R1126	1-216-864-11	METAL CHIP	0	5%	1/16W (DSR-40)
IC114	0 8-759-157-22	IC PQ05TZ1U								(DON-40)
10114	0 8-752-341-38 0 8-750-59 <i>1</i> -48	IC CXD1217Q-T4 IC TC74VHC393FT	(FL)		R1127	1-216-845-11	METAL CHIP	100K	5%	1/16W
10114	2 0-700 024 40	10 107 777700001	(44)		R1128	1-216-833-11	METAL CHIP	10K	5%	1/16W
		IC TC74VHC164FT			R1129	1-216-833-11		10K	5%	1/16W
IC114	4 8-759-524-19	IC TC74VHC164FT	(EL)		R1130	1-216-821-11		1K 4.7K	5% 5%	1/16W 1/16W
		< COIL >			R1131	1-216-829-11	WIL TAL UTIP	4./ IV	J /0	1/1044
		< UUIL >			R1132	1-216-821-11		1K	5%	1/16W
L110	1-412-029-11	INDUCTOR CHIP 1	OuH		R1133	1-216-833-11	METAL CHIP	10K	5%	1/16W
L110	1-412-029-11	INDUCTOR CHIP 1	0uH		R1134	1-216-827-11		3.3K	5%	1/16W
L110	1-412-029-11	INDUCTOR CHIP 1	OuH		R1135 R1136	1-216-825-11 1-216-839-11		2.2K 33K	5% 5%	1/16W 1/16W
L110		INDUCTOR CHIP 1 INDUCTOR CHIP 1	Out Out		n1130	1-210-009-11	MILIAL OHI	JUIN	<b>U</b> /0	.,
L110	) [-4]Z-UZY-][	INDUCTOR CHIE I	·	•	R1137	1-216-833-11		10K	5%	1/16W
					R1138	1-216-831-11		6.8K	5%	1/16W
					R1139	1-218-854-11	RES, CHIP	2K	0.50%	1/16W

Re	f. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			<u>Remark</u>
				401/	E0/		R1192	1-216-864-11	METAL CHIP	0	5%	1/16W
	R1140	1-216-833-11		10K	5%	1/16W	K1192	1-210-004-11	WETAL OTHE		J /0	(DSR-40P)
	R1141	1-216-821-11	METAL CHIP	1K	5%	1/16W	R1193	1-216-864-11	METAL CHIP	0	5%	1/16W
			METAL OLUD	001/	E0/	1/16W	ספוות	1-210-004-11	WIL IAL OITH	U	0 /0	(DSR-40P)
	R1142		METAL CHIP	82K	5%		D1104	1-216-837-11	METAL CHID	22K	5%	1/16W
	R1143	1-216-809-11	METAL CHIP	100	5%	1/16W	R1194	1-210-037-13	WE TAL OTHE	2211	J /0	
	R1145		METAL CHIP	68K	5%	1/16W						(DSR-40)
	R1146	1-216-821-11	METAL CHIP	1K	5%	1/16W				_		
	R1147	1-216-864-11	METAL CHIP	0	5%	1/16W	R1195	1-216-864-11	METAL CHIP	0	5%	1/16W
						(DSR-40)	. *					(DSR-40P)
							R1196	1-216-864-11	METAL CHIP	0	5%	1/16W
	R1148	1-216-864-11	METAL CHIP	0	5%	1/16W						(DSR-40P)
	N1140	1-210-00-4-11	MEIAL OIM	Ü	0 70	(DSR-40)	R1197	1-216-843-11	METAL CHIP	68K	5%	1/16W
	D4440	4 040 004 44	METAL CHID	0	5%	1/16W	1,1107	1 210 010 11	.,,_,,,			
	R1149	1-216-864-11	METAL CHIP	U		(DSR-40P)	R1198	1-216-864-11	METAL CHIP	0	5%	1/16W
		1 010 051 11	DEC OUID	01/		1/16W	111130	1 210 004 11	WE ITTE OTT	J	0 70	(DSR-40)
	R1150	1-218-854-11	RES, CHIP	2K	0.50%	1/1000	D1100	1 016 06/ 11	METAL CHIP	0	5%	1/16W
						4 44 0141	R1199	1-216-864-11	METAL CHIP	U	J /0	(DSR-40P)
	R1151	1-216-833-11		10K	5%	1/16W			NAME OF THE		E0/	
	R1152	1-216-839-11		33K	5%	1/16W	R1200	1-216-864-11	METAL CHIP	0	5%	1/16W
	R1153	1-216-809-11	METAL CHIP	100	5%	1/16W						(DSR-40)
	R1154	1-216-837-11	METAL CHIP	22K	5%	1/16W						
	R1155	1-216-833-11		10K	5%	1/16W	R1201	1-216-864-11	METAL CHIP	0	5%	1/16W
	.,,,,,,	, 2.0 000										(DSR-40P)
	R1156	1-216-864-11	METAL CHIP	0	5%	1/16W	R1202	1-216-819-11	METAL CHIP	680	5%	1/16W
	niio	1-210-004-11	WIL TAL OTT	U	0 70	(DSR-40P)		, = , = , = ,				(DSR-40)
	D4467	4 040 004 44	MATTAL CLUD	0	5%	1/16W	R1203	1-216-864-11	METAL CHIP	0	5%	`1/16W ´
	R1157	1-216-864-11	WEIAL CHIP	U	J /0		111200	1 210 004 11	MEME OIL	Ü	070	(DSR-40)
				400	F0/	(DSR-40)						(5011 10)
	R1158	1-216-809-11	METAL CHIP	100	5%	1/16W			. VIDDATOD -			
									< VIBRATOR >			
	R1159	1-216-833-11	METAL CHIP	10K	5%	1/16W				001/0741 /1/0	0.71/05	-
	R1160	1-218-881-11	RES,CHIP	27K	0.50%	1/16W	X1101	1-760-267 <b>-</b> 11	OSCILLATOR,			
	R1161	1-218-881-11	RES,CHIP	27K	0.50%							z) (DSR-40)
	R1162	1-218-855-11		2.2K	0.50%	1/16W	X1101	1-760-266-11	OSCILLATOR,			
	R1163	1-218-854-11		2K	0.50%					(14.18	75MHz	(DSR-40P)
	111100	1 1 0 00 1 1 1					1					-\
			,				X1102	1-760-267-11	OSCILLATOR,	CRYSTAL (VC	0 TYPE	:)
	D1164	1.016.000.11					X1102	1-760-267-11	OSCILLATOR,	CRYSTAL (VC 14.31)		
	R1164	1-216-833-11	METAL CHIP	10K	5%	1/16W	X1102	1-760-267-11	OSCILLATOR,			z) (DSR-40)
	R1165	1-216-839-11	METAL CHIP METAL CHIP	10K 33K	5% 5%	1/16W 1/16W				(14.31	818MH	z) (DSR-40)
	R1165 R1166	1-216-839-11 1-216-809-11	METAL CHIP METAL CHIP METAL CHIP	10K 33K 100	5% 5% 5%	1/16W 1/16W 1/16W	X1102 X1102		OSCILLATOR,	(14.31 CRYSTAL (VC	818MH 0 TYPE	z) (DSR-40)
	R1165 R1166 R1167	1-216-839-11 1-216-809-11 1-216-833-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K	5% 5% 5%	1/16W 1/16W 1/16W 1/16W				(14.31 CRYSTAL (VC	818MH 0 TYPE	z) (DSR-40)
	R1165 R1166	1-216-839-11 1-216-809-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100	5% 5% 5%	1/16W 1/16W 1/16W				(14.31 CRYSTAL (VC	818MH 0 TYPE	z) (DSR-40)
	R1165 R1166 R1167 R1168	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K	5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11	OSCILLATOR,	(14.31 CRYSTAL (VC (17.7344	818MH O TYPE 75MHz	z) (DSR-40) E) ) (DSR-40P)
	R1165 R1166 R1167	1-216-839-11 1-216-809-11 1-216-833-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K	5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11 A-7073-776-A	OSCILLATOR, HP-118 BOAR	(14.31) CRYSTAL (VC (17.7344) D, COMPLETE	818MH O TYPE 75MHz (DSR-	z) (DSR-40) (E) (DSR-40P) (DSR-40P)
	R1165 R1166 R1167 R1168	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K	5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11 A-7073-776-A	OSCILLATOR,	(14.31) CRYSTAL (VC (17.7344) D, COMPLETE	818MH O TYPE 75MHz (DSR-	z) (DSR-40) (E) (DSR-40P) (DSR-40P)
	R1165 R1166 R1167 R1168 R1170 R1171	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K	5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11 A-7073-776-A	OSCILLATOR, HP-118 BOAR	(14.31 CRYSTAL (VC (17.7344 D, COMPLETE D, COMPLETE	818MH O TYPE 75MHz (DSR- (DSR-	z) (DSR-40) E) ) (DSR-40P) 40) 40P)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0	5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11 A-7073-776-A	OSCILLATOR,  HP-118 BOARI HP-118 BOARI	(14.31 CRYSTAL (VC (17.7344 D, COMPLETE D, COMPLETE	818MH O TYPE 75MHz (DSR- (DSR-	z) (DSR-40) (E) (DSR-40P) (DSR-40P)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K	5% 5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11 A-7073-776-A	OSCILLATOR,  HP-118 BOARI HP-118 BOARI	(14.31 CRYSTAL (VC (17.7344 D, COMPLETE D, COMPLETE	818MH O TYPE 75MHz (DSR- (DSR-	z) (DSR-40) E) ) (DSR-40P) 40) 40P)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0	5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11 A-7073-776-A	OSCILLATOR,  HP-118 BOARI HP-118 BOARI	(14.31 CRYSTAL (VC (17.7344 D, COMPLETE D, COMPLETE ***********************************	818MH O TYPE 75MHz (DSR- (DSR-	z) (DSR-40) E) ) (DSR-40P) 40) 40P)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K	5% 5% 5% 5% 5% 5% 5% 5% 0.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102	1-760-268-11 A-7073-776-A	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************************************	(14.31 CRYSTAL (VC (17.7344 D, COMPLETE D, COMPLETE ***********************************	818MH O TYPE 75MHz (DSR- (DSR-	z) (DSR-40) E) ) (DSR-40P) 40) 40P)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K	5% 5% 5% 5% 5% 5% 5% 5% 0.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102 * *	1-760-268-11 A-7073-776-A A-7073-779-A	OSCILLATOR,  HP-118 BOARI HP-118 BOARI *************  < CAPACITOR	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE *********** (Re	818MH O TYPE 75MHz (DSR- (DSR- *	z) (DSR-40) E) ) (DSR-40P) 40) 40P) ,000 Series)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 5 1/16W	X1102 * *	1-760-268-11 A-7073-776-A A-7073-779-A	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ******** (Re > 10uF	818MH O TYPE 75MHz (DSR- (DSR-	z) (DSR-40) E) ) (DSR-40P) 40) 40P) ,000 Series)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102 * * *	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ******** (Ref > 10uF P 0.1uF	818MH O TYPE 75MHz (DSR- (DSR- *	z) (DSR-40) E) ) (DSR-40P) 40) 40P) ,000 Series)
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 0.50% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102 * * * *	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI **********  < CAPACITOR  ELECT CHIP CERAMIC CHII CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Ref  10uF D 0.1uF D 0.1uF	818MH 0 TYPE 75MHz (DSR- (DSR- * 91.No. 4	z) (DSR-40) E) ) (DSR-40P) 40) 40P) ,000 Series) 16V 16V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102  * * * C001 C002 C003 C004	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-164-360-11 1-128-004-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI **********  < CAPACITOR  ELECT CHIP CERAMIC CHII CERAMIC CHII ELECT CHIP	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ******** (Re  10uF 0.1uF 0.1uF 10uF	818MH 0 TYPE 75MHz (DSR- (DSR- * * * * * * 20%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) ,000 Series) 16V 16V 16V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-818-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102 * * * *	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI **********  < CAPACITOR  ELECT CHIP CERAMIC CHII CERAMIC CHII ELECT CHIP	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 0.1uF 10uF	818MH O TYPE 75MHz (DSR- (DSR- * ef.No. 4	z) (DSR-40) E) ) (DSR-40P) 40) 40P) ,000 Series) 16V 16V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 0.50% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102  * * * C001 C002 C003 C004 C005	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-164-360-11 1-128-004-11 1-162-923-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII CERAMIC CHII ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ******** (Ref  10uF 0.1uF 10uF 10uF 47PF	818MH 0 TYPE 75MHz (DSR- (DSR- * * * * * * 20%	z) (DSR-40) E) ) (DSR-40P) 40) 40P) ,000 Series) 16V 16V 16V 16V 50V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-818-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102  * * * C001 C002 C003 C004	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-162-923-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII CERAMIC CHII CERAMIC CHII CERAMIC CHII CERAMIC CHII CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 10uF 10uF 0.1uF 10uF 0.1uF	818MH O TYPE 75MHz (DSR- (DSR- * 20% 20% 5%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) ,000 Series) 16V 16V 16V 16V 50V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-831-11 1-216-831-11 1-216-831-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	X1102  * * * C001 C002 C003 C004 C005	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-162-923-11 1-164-360-11 1-162-923-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 10uF 10uF 20.1uF 10uF 20.1uF	818MH 0 TYPE 75MHz (DSR- (DSR- * * * * * * 20%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40P) ,000 Series) 16V    16V    16V    16V    50V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1179	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES,CHIP RES,CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560	5% 5% 5% 5% 5% 5% 0.50% 0.50% 0.50% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	* * * * * * * * * * * * * * * * * * *	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-162-923-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 10uF 10uF 0.1uF 10uF 0.1uF	818MH O TYPE 75MHz (DSR- (DSR- * 20% 20% 5%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) ,000 Series) 16V 16V 16V 16V 50V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1179	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11 1-216-864-11 1-216-864-11 1-218-854-11	METAL CHIP RES,CHIP RES,CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560	5% 5% 5% 5% 5% 5% 0.50% 0.50% 5.50% 5.50% 5.50% 5.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	* *  *  *  *  *  *  *  *  *  *  *  *  *	1-760-268-11 A-7073-776-A A-7073-779-A 1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-162-923-11 1-162-923-11 1-128-004-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII ELECT CHIP	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 10uF 47PF 0.1uF 47PF 10uF	818MH O TYPE 75MHz (DSR- (DSR- * 20% 20% 5% 5% 20%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40P) ,000 Series) 16V    16V    16V    16V    50V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1179	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11	METAL CHIP RES,CHIP RES,CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560	5% 5% 5% 5% 5% 5% 0.50% 0.50% 5.50% 5.50% 5.50% 5.50%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W	* * *  C001 C002 C003 C004 C005 C006 C007 C008 C009	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-164-360-11 1-162-923-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 10uF 47PF 10uF 47PF 10uF 0.1uF 0.1uF	818MH O TYPE 75MHz (DSR- (DSR- * * * * * * * * * * * * * * * * * * *	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40P) ,000 Series) 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1179	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11 1-216-864-11 1-218-854-11 1-218-854-11	METAL CHIP RES, CHIP RES, CHIP RES, CHIP RES, CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560 2.2K	5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 5% 5%	1/16W 1/16W	* *  *  *  *  *  *  *  *  *  *  *  *  *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-164-360-11 1-162-923-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII ELECT CHIP	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 10uF 47PF 10uF 47PF 10uF 0.1uF 0.1uF	818MH O TYPE 75MHz (DSR- (DSR- * 20% 20% 5% 5% 20%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40P) ,000 Series) 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1179 R1180 R1182 R1183 R1184	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11 1-216-864-11 1-218-854-11 1-218-854-11 1-218-823-11	METAL CHIP RES,CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP RES,CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560 2.2K 0 2K 100 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 5% 5%	1/16W 1/16W	* *  *  *  *  *  *  *  *  *  *  *  *  *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-164-360-11 1-162-923-11 1-164-227-11 1-164-227-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI **********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Re  10uF 0.1uF 10uF 47PF 10uF 47PF 10uF 0.022uF 0.022uF	818MH O TYPE 75MHz (DSR- (DSR- * 20% 20% 5% 5% 10% 10%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40P) ,000 Series) 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-829-11 1-218-854-11 1-218-854-11 1-218-854-11 1-218-851-11	METAL CHIP RES,CHIP METAL CHIP RES,CHIP RES,CHIP RES,CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 5% 5% 5% 5%	1/16W 1/16W	* *  *  *  *  *  *  *  *  *  *  *  *  *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-966-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Ref  10uF 0.1uF 10uF 47PF 10uF 0.1uF 0.0022uF	818MH O TYPE 75MHz (DSR- (DSR- * * * * * * * * * * * * * * * * * * *	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40) (40P) (40P) (40P) 16V (16V) (
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-825-11 1-216-825-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP RES, CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 0.50%	1/16W	* *  *  *  *  *  *  *  *  *  *  *  *  *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-966-11 1-162-970-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC (17.7344  D, COMPLETE D, COMPLETE ********* (Ref  10uF 0.1uF 10uF 47PF 10uF 0.1uF 0.0022uF 0.0022uF 0.0012uF	818MH 0 TYPE 75MHz (DSR- (DSR- (DSR- * * * * * * * * * * * * * * * * * * *	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40) (40P) (40P) (40P) 16V (16V) (
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-831-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 100	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 5% 0.50% 0.50% 0.50%	1/16W	* * *  C001 C002 C003 C004 C005 C006 C007 C008 C009 C010 C011 C200 C201	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- (DSR- * * * * * * * * * * * * * * * * * * *	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40) (40P) (40P) (40P) 16V (16V (16V (16V (16V (16V (16V (16V (
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-825-11 1-216-825-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 0.50%	1/16W	* * * * * * * * * * * * * * * * * * *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11	OSCILLATOR,  HP-118 BOAR HP-118 BOAR ***********  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- (DSR- * * * 20% 20% 5% 5% 10% 10% 10% 10% 10% 10%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40) (40P) (40P) (40P) 16V (16V) (
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-831-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 100	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 5% 0.50% 5% 0.50%	1/16W	* * *  C001 C002 C003 C004 C005 C006 C007 C008 C009 C010 C011 C200 C201	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- (DSR- * * * * * * * * * * * * * * * * * * *	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40) (40P) (40P) (40P) 16V (16V (16V (16V (16V (16V (16V (16V (
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-831-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP RES, CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 100	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 5% 0.50% 0.50% 0.50%	1/16W	* * * * * * * * * * * * * * * * * * *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- (DSR- * * * 20% 20% 5% 5% 10% 10% 10% 10% 10% 10%	z) (DSR-40) E) (DSR-40P) 40) (DSR-40P) 40) (40P) (40P) (40P) 16V (16V) (
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187 R1188	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-825-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP RES, CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 100 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 5% 0.50% 5% 0.50%	1/16W	**  *  C001 C002 C003 C004 C005  C006 C007 C008 C009 C010  C011 C200 C201 C202 C203  C204	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- (DSR- * * * 20% 20% 5% 5% 10% 10% 10% 10% 10% 10%	z) (DSR-40) E) () (DSR-40P) 40) 400 40P) ,000 Series) 16V 16V 16V 50V 16V 25V 25V 25V 25V 25V 25V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187 R1188	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-881-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-825-11 1-216-864-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 100 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 5% 0.50% 5% 0.50%	1/16W	* * * * * * * * * * * * * * * * * * *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-164-360-11 1-164-360-11 1-164-360-11	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- ef.No. 4 20% 5% 5% 10% 10% 10% 10% 10%	z) (DSR-40) E) () (DSR-40P) 40) 40) 40P) ,000 Series) 16V 16V 16V 50V 16V 25V 25V 25V 25V 25V 16V 16V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187 R1188	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-825-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 100 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 0.50% 5.50% 0.50% 5.50%	1/16W	**  *  C001 C002 C003 C004 C005  C006 C007 C008 C009 C010  C011 C200 C201 C202 C203  C204	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-779-00	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- (DSR- * * * 20% 20% 5% 5% 10% 10% 10% 10% 10% 10%	z) (DSR-40) E) () (DSR-40P) 40) 400 40P) ,000 Series) 16V 16V 16V 50V 16V 25V 25V 25V 25V 25V 25V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187 R1188 R1189	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11 1-216-864-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-864-11 1-216-864-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 1.00 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 5.50% 0.50% 5.50% 0.50% 5.50% 0.50% 5.50%	1/16W	**  *  C001 C002 C003 C004 C005  C006 C007 C008 C009 C010  C011 C200 C201 C202 C203  C204 C205 C206	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-779-00	OSCILLATOR,  HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- ef.No. 4 20% 5% 5% 10% 10% 10% 10% 10%	z) (DSR-40) E) () (DSR-40P) 40) 40) 40P) ,000 Series) 16V 16V 16V 50V 16V 25V 25V 25V 25V 25V 16V 16V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187 R1188	1-216-839-11 1-216-809-11 1-216-833-11 1-216-864-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-881-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-825-11 1-216-864-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 100 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 0.50% 5.50% 0.50% 5.50%	1/16W	* * * * * * * * * * * * * * * * * * *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-164-360-11 1-164-360-11 1-164-360-11 1-124-779-00 1-124-779-00	OSCILLATOR,  HP-118 BOARI HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- ef.No. 4 20% 5% 5% 10% 10% 10% 10% 10% 10%	z) (DSR-40) E) () (DSR-40P) 40) 40) 40P) ,000 Series)  16V 16V 16V 50V 16V 25V 25V 25V 25V 25V 16V 16V 16V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187 R1188 R1189	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11 1-216-864-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-864-11 1-216-864-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 1.00 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 5.50% 0.50% 5.50% 0.50% 5.50% 0.50% 5.50%	1/16W	**  *  C001 C002 C003 C004 C005  C006 C007 C008 C009 C010  C011 C200 C201 C202 C203  C204 C205 C206	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-360-11 1-164-779-00	OSCILLATOR,  HP-118 BOARI HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- * * * * * * * * * * * * * * * * * * *	z) (DSR-40) E) () (DSR-40P) 40) 40) 40P) ,000 Series)  16V 16V 16V 50V 16V 25V 25V 25V 25V 25V 16V 16V 16V 16V 16V 16V
	R1165 R1166 R1167 R1168 R1170 R1171 R1173 R1174 R1175 R1176 R1177 R1178 R1179 R1180 R1182 R1183 R1184 R1185 R1186 R1187 R1188 R1189	1-216-839-11 1-216-809-11 1-216-833-11 1-216-837-11 1-216-864-11 1-216-809-11 1-216-833-11 1-218-851-11 1-218-881-11 1-218-881-11 1-216-831-11 1-216-818-11 1-216-825-11 1-216-864-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-829-11 1-216-864-11 1-216-864-11	METAL CHIP RES, CHIP RES, CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP RES, CHIP METAL CHIP RES, CHIP METAL CHIP	10K 33K 100 10K 22K 0 0 100 10K 1.5K 27K 6.8K 560 2.2K 0 2K 100 4.7K 1.5K 4.7K 1.00 4.7K	5% 5% 5% 5% 5% 5% 5% 0.50% 0.50% 5% 5% 0.50% 5.50% 0.50% 5.50% 0.50% 5.50% 0.50% 5.50%	1/16W	* * * * * * * * * * * * * * * * * * *	1-760-268-11  A-7073-776-A A-7073-779-A  1-128-004-11 1-164-360-11 1-164-360-11 1-162-923-11 1-162-923-11 1-164-227-11 1-164-227-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-162-970-11 1-164-360-11 1-164-360-11 1-164-360-11 1-124-779-00 1-124-779-00	OSCILLATOR,  HP-118 BOARI HP-118 BOARI HP-118 BOARI ************  < CAPACITOR  ELECT CHIP CERAMIC CHII	(14.31 CRYSTAL (VC	818MH 0 TYPE 75MHz (DSR- (DSR- * * * * * * * * * * * * * * * * * * *	z) (DSR-40) E) () (DSR-40P) 40) 40) 40P) ,000 Series)  16V 16V 16V 50V 16V 25V 25V 25V 25V 25V 16V 16V 16V 16V 16V 16V

## HP-118

Ref. N	lo.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C21		1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C751	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C21		1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C752	1-164-360-11		0.1uF	0 / 0	16V
C21		1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C753	1-164-360-11	CERAMIC CHIP	0.1uF	**	16V
C21		1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C754	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
011						•••						
C21	14	1-126-204-11	ELECT CHIP	47uF	20%	16V	C755	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C21		1-126-204-11	ELECT CHIP	47uF	20%	16V	C756	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C21		1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C757	1-164-677-11		0.033uF	10%	16V
C21	17	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C758	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C21	18	1-126-204-11	ELECT CHIP	47uF	20%	16V	C759	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
									0504440 0140	4005	F0/	F0) (
C21		1-126-204-11		47uF	20%	16V	C760		CERAMIC CHIP	47PF	5%	50V
C70		1-124-778-00		22uF	20%	6.3V	C761	1-164-677-11	CERAMIC CHIP	0.033uF 0.033uF	10% 10%	16V 16V
C70		1-124-778-00		22uF 47PF	20% 5%	6.3V 50V	C762 C763		CERAMIC CHIP	0.033uF 0.1uF	1076	16V
C70			CERAMIC CHIP	0.1uF	3%	16V	C764	1-104-360-11	ELECT CHIP	10uF	20%	16V
C70	J4	1-104-300-11	GENAIVIIG GHIP	U. IUF		100	0704	1-120-004-71	LELOT OTT	1001	2070	
C70	15	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C765	1-164-360-11	CERAMIC CHIP	0.1uF		16V
.C70		1-164-360-11	CERAMIC CHIP	0.1uF	0 70	16V	C766	1-128-004-11	ELECT CHIP	10uF	20%	16V
C70		1-164-360-11	CERAMIC CHIP	0.1uF		16V	C767		CERAMIC CHIP	0.033uF	10%	16V
C70		1-128-004-11	ELECT CHIP	10uF	20%	16V	C768	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C70		1-128-004-11		10uF	20%	16V	C771	1-164-360-11		0.1uF		16V
C71	10	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C772	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C71		1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C773	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C71		1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C774	1-162-923-11		47PF	5%	50V
C71		1-164-360-11	CERAMIC CHIP	0.1uF		16V	C890	1-164-360-11		0.1uF		16V
C71	14	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C892	1-164-360-11	CERAMIC CHIP	0.1uF		16V
			0504440 0140	00000	E0/	E014	0000	4 445 504 44	TANTAL CHID	100uF	20%	16V
C71		1-164-389-11	CERAMIC CHIP	300PF	5%	50V	C893	1-115-581-11	TANTAL. CHIP TANTAL. CHIP	100uF	20%	16V
C71		1-164-360-11	CERAMIC CHIP	0.1uF 300PF	5%	16V 50V	C895 C898	1-115-581-11 1-104-823-11		47uF	20%	16V
C71 C71		1-164-389-11 1-162-919-11	CERAMIC CHIP	22PF	5%	50V 50V	C899	1-104-823-11	TANTAL, CHIP	47uF	20%	16V
C71		1-164-360-11	CERAMIC CHIP	0.1uF	J /0	16V	C900	1-164-360-11	CERAMIC CHIP	0.1uF	2070	16V
07	19	1-104-300-11	CLIMINIC OTH	U. Tui		104	0300	1 104 000 11	OLI II MINIO OTTI	0.141		
C72	20	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C901	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C72		1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C906	1-164-360-11		0.1uF		16V
C72		1-164-360-11	CERAMIC CHIP	0.1uF		16V	C907	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C72		1-104-852-11	TANTAL. CHIP	22uF	20%	10V	C910	1-109-994-11	CERAMIC CHIP	2.2uF	10%	10V
C72		1-164-389-11	CERAMIC CHIP	300PF	5%	50V						
									< CONNECTOR >			
C72			CERAMIC CHIP	0.1uF		16V				0 (715) 005		
.C72			CERAMIC CHIP	300PF	5%	50V	CN200		CONNECTOR, FP			
C72			CERAMIC CHIP	0.1uF	E0/	16V	CN201		PIN, CONNECTOR			
C72			CERAMIC CHIP	47PF	5%	50V	* CN701	1-091-001-11	PIN, CONNECTOR	4 (21MD) OF		
C72	29	1-164-360-11	CERAMIC CHIP	0.1uF		16V			< DIODE >			
C73	20	1.164.260-11	CERAMIC CHIP	0.1uF		16V			( DIODE >			
C73			CERAMIC CHIP	0.1uF		16V	D001	8-719-421-59	DIODE MA3075	WA-(TX)		
C73			TANTAL. CHIP	22uF	20%	10V	D002		DIODE MA3075			
C73			CERAMIC CHIP	0.1uF	2070	16V	D003		DIODE MA3075			
C73			TANTAL. CHIP	2.2uF	20%	16V	D004		DIODE MA3075			
911			31111				D005		DIODE MA3075		,	
C73	35	1-135-179-21	TANTAL. CHIP	2.2uF	20%	16V						
C73			CERAMIC CHIP	0.1uF		16V	D006		DIODE MA3075			
C73		1-164-389-11	CERAMIC CHIP	300PF	5%	50V	D007		DIODE MA3075			
C73	38	1-164-360-11	CERAMIC CHIP	0.1uF		16V	D008		DIODE MA3075			
C73	39	1-164-389-11	CERAMIC CHIP	300PF	5%	50V	D009		DIODE MA3075			
							D010	8-719-421-59	DIODE MA3075	WA-(1X)		
C74			CERAMIC CHIP	0.1uF	000/	16V	D044	0.740.404.50	DIODE MASON	יעדו אוא		
C74			TANTAL, CHIP	22uF	20%	10V	D011		DIODE MA3075			
C74			CERAMIC CHIP	300PF	5%	50V	D012		DIODE MA3075 DIODE DAN202			
C74			CERAMIC CHIP	0.1uF	E0/	16V	D203 D204		DIODE DAN202			
C74	44	1-164-389-11	CERAMIC CHIP	300PF	5%	50V	D204 D858		DIODE MA111-			
07	45	1_164_960_11	CERAMIC CHIP	0.1uF		16V	D630	U-118-018-01	DIODE WATTE	(1.0).00		
C74			CERAMIC CHIP	0.1uF		16V	D859	8-719-073-01	DIODE MA111-	(K8),S0		
C74			CERAMIC CHIP	10PF	0.5PF	50V	D861		DIODE MA3062			
C74			CERAMIC CHIP	0.1uF	0.01	16V	D863		DIODE RD6.2FM			
C74			CERAMIC CHIP	0.1uF		16V						
									•			
C75	50	1-164-360-11	CERAMIC CHIP	0.1uF		16V						

#### HP-118

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			<u>Remark</u>
11011 1101		< FERRITE BEAD >		R005	1-216-835-11	METAL CHIP	15K	5%	1/16W
				B000	4 040 004 44	METAL CLUD	6.8K	5%	1/16W
FB001	1-500-241-22			R006	1-216-831-11 1-216-831-11		6.8K	5%	1/16W
FB002	1-500-241-22			R007			15K	5%	1/16W
FB003	1-500-241-22	FERRITE OUH		R008	1-216-835-11		1K	5%	1/16W
		10		R009	1-216-821-11 1-216-821-11		1K	5%	1/16W
		< IC >		R010	1-210-021-11	WE FAL OHP	IN	J /0	1/1044
IC001	8-759-369-73	IC NJM4556AM-A-TE2		R011	1-216-809-11	METAL CHIP	100	5%	1/16W
IC201		IC NJM5532M(TE2)		R012	1-216-809-11	METAL CHIP	100	5%	1/16W
IC204		IC NJM5532M(TE2)		R122	1-218-831-11	RES,CHIP	220	0.50%	
IC205	8-759-700-94			R200	1-216-864-11		0	5%	1/16W
IC701	8-759-745-64	IC NJM4560M-TE2		R201	1-218-833-11	RES,CHIP	270	0.50%	1/16W
10700	0.750.500.00	10 T0741104052457/51		R202	1-218-836-11	RES CHIP	360	0.50%	1/16W
IC702		IC TC74HC4053AFT(EL)		R203	1-218-847-11		1K	0.50%	1/16W
10703		IC TC74HC4053AFT(EL) IC NJM4560M-TE2		R204	1-218-823-11		100	0.50%	1/16W
IC704 IC705	8-759-358-47			R205	1-218-833-11		270	0.50%	1/16W
IC705	8-759-745-64			R206	1-218-836-11		360		1/16W
10100	0 100 1 10 0 1								
IC707	8-759-358-47			R207	1-218-847-11		1K	0.50%	1/16W
IC708	8-759-481-66			R208	1-218-823-11		100	0.50%	1/16W 1/16W
IC709		IC NJM2115V(TE2)		R209	1-216-864-11		0	5%	1/16W
IC710	8-759-358-47			R210	1-216-864-11 1-216-864-11		0 0	5% 5%	1/16W
IC711	8-759-523-02	IC TC74HC4053AFT(EL)		R211	1-210-004-11	WE TAL CHIP	U	370	1/1000
IC712	8-759-745-64	IC NJM4560M-TE2		R212	1-216-813-11	METAL CHIP	220	5%	1/16W
IC712	8-759-358-47			R213	1-216-813-11		220	5%	1/16W
IC713	8-759-358-47			R218	1-218-868-11		7.5K	0.50%	1/16W
IC715	8-759-745-64			R219	1-218-855-11		2.2K	0.50%	1/16W
IC716		IC NJM4560M-TE2		R220	1-211-981-11		33	0.50%	1/16W
								0.500/	4.4004
IC717	8-759-358-47			R221	1-218-868-11		7.5K	0.50%	1/16W
IC718	8-759-358-47			R222	1-218-855-11		2.2K	0.50%	1/16W
IC862		IC L79M05T-FA-TL		R223	1-211-981-11		33	0.50%	1/16W 1/16W
IC863	8-759-157-22	IC PQ05TZ1U		R224	1-218-855-11 1-218-855-11		2.2K 2.2K	0.50%	1/16W
IC864	8-759-929-26	IC TL431CPSR		R225	1-210-000-11	neo,unir	2.2K	0.30 /6	1/1000
		< JACK >		R226	1-218-855-11	RES,CHIP	2.2K	0.50%	1/16W
				R227	1-218-855-11		2.2K	0.50%	1/16W
J001	1-569-809-11	JACK (SMALL TYPE) (PHONES)		R228	1-218-868-11		7.5K	0.50%	1/16W
		, , , , , , , , , , , , , , , , , , , ,		R229	1-218-868-11	RES,CHIP	7.5K		
		< COIL >		R230	1-218-827-11	RES,CHIP	150	0.50%	1/16W
1.050	4 440 000 44	INDUCTOR CHIR 4 7011		R231	1-218-827-11	BES CHIP	150	0.50%	1/16W
L856		INDUCTOR CHIP 4.7uH INDUCTOR CHIP 4.7uH		R232	1-218-868-11		7.5K		1/16W
L857	1-412-020-11	INDUCTOR CHIP 4.7 un		R233	1-218-868-11	*	7.5K		1/16W
		< TRANSISTOR >		R234	1-218-830-11		200		1/16W
		< mandioron >		R235	1-211-981-11		33		1/16W
Q201	8-729-028-70	TRANSISTOR UN2225T-(TX)							
Q202	8-729-028-70	TRANSISTOR UN2225T-(TX)		R236	1-218-868-11		7.5K		1/16W
Q701	8-729-015-76	TRANSISTOR UN5211-TX		R237	1-218-855-11		2.2K		1/16W
Q702		TRANSISTOR UN5111-TX		R238	1-218-830-11		200		1/16W
Q703	8-729-905-35	TRANSISTOR 2SC4081T106R		R239	1-218-868-11		7.5K		1/16W
0704	2 702 005 05	TRANSICTOR GCC4004T406R		R240	1-218-855-11	RES,CHIP	2.2K	0.50%	1/16W
Q704		TRANSISTOR 2SC4081T106R TRANSISTOR UN5213-TX		R241	1-211-981-11	RES CHIP	33	0.50%	1/16W
Q705 Q706		TRANSISTOR UN5113-TX		R242	1-218-871-11		10K		1/16W
Q707		TRANSISTOR UN5211-TX		R243	1-218-871-11		10K	0.50%	
Q708		TRANSISTOR UN2225T-(TX)		R244	1-218-871-11		10K		
4700	0 720 020 70	774 110 10 10 11 071 2220 (177)		R245	1-218-871-11		10K	0.50%	1/16W
Q709	8-729-028-70	TRANSISTOR UN2225T-(TX)				BEG 6: !!!	0.614	0.555	4404
Q710		TRANSISTOR UN2225T-(TX)		R246	1-218-855-11		2.2K		1/16W
Q711		TRANSISTOR UN2225T-(TX)	•	R247	1-218-855-11		2.2K		1/16W
Q853	8-729-014-91	TRANSISTOR 2SD2185S-TX		R248	1-218-868-11		7.5K		1/16W
		DECICTOR		R249	1-218-872-11		11K 7.5K		1/16W 1/16W
		< RESISTOR >		R251	1-218-868-11	NEO,UMF	i.JN	0.0070	17 10 88
R001	1-216-833-11	METAL CHIP 10K 5%	1/16W	R253	1-218-872-11	RES,CHIP	11K	0.50%	1/16W
R002	1-216-821-11		1/16W	R254	1-216-864-11		0	5%	1/16W
R003	1-216-821-11		1/16W						(DSR-40)
R004		METAL CHIP 10K 5%	1/16W	1					

# HP-118

Ref. No.	Part No.	<u>Description</u>	•		Remark	Ref. No.	Part No.	Description			Remark
R255	1-216-864-1	METAL CHIP	0	5%	1/16W	R759	1-216-841-11	METAL CHIP	47K	5%	1/16W
					(DSR-40P)	R760	1-218-332-11		130K	5%	1/16W
								,			.,
R257	1-216-864-11	METAL CHIP	0	5%	1/16W	R761	1-218-332-11		130K	5%	1/16W
Dono	4 040 004 4				(DSR-40)	R762	1-216-841-11		47K	5%	1/16W
R258	1-216-864-11	METAL CHIP	0	5%	1/16W	R763	1-216-833-11		10K	5%	1/16W
D701	1 010 000 11	L METAL OLUB	401/		(DSR-40P)	R764	1-216-849-11		220K	5%	1/16W
R701	1-216-833-11	METAL CHIP	10K	5%	1/16W	R765	1-216-833-11	METAL CHIP	10K	5%	1/16W
D700	1 010 071 11	DEC CHID	401/	0.500	4400						
R702 R703	1-218-871-11		10K	0.50%		R766	1-218-882-11	,	30K	0.50%	
R703	1-218-871-11	METAL CHIP	10K	0.50%		R767	1-218-862-11		4.3K	0.50%	
R704		METAL CHIP	10K	5%	1/16W	R768	1-216-833-11		10K	5%	1/16W
R706	1-216-833-11		10K 10K	5% 5%	1/16W 1/16W	R769	1-216-833-11		10K	5%	1/16W
11700	1 210 000-11	WEIAL OTH	ION	3 70	1/1044	R770	1-216-833-11	METAL CHIP	10K	5%	1/16W
R707	1-216-833-11	METAL CHIP	10K	5%	1/16W	R771	1-216-833-11	METAL CHIP	10K	5%	4 /4 6\4/
R708	1-216-833-11		10K	5%	1/16W	R772	1-216-825-11	METAL CHIP	2.2K		1/16W
R711	1-216-864-11		0	5%	1/16W	R773	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R712	1-216-864-11		Õ	5%	1/16W	R774	1-216-833-11		10K	5% 5%	1/16W 1/16W
R713	1-218-875-11		15K	0.50%		R775			100	0.50%	1/16W
		,		0.007			1 210 020 11	neo,om	100	0.50 %	1/1000
R714	1-218-875-11	RES,CHIP	15K	0.50%	1/16W	R776	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R715	1-216-833-11	METAL CHIP	10K	5%	1/16W	R777			4.7K	5%	1/16W
R716	1-216-833-11	METAL CHIP	10K	5%	1/16W	R778		METAL CHIP	4.7K	5%	1/16W
R717	1-218-875-11	RES, CHIP	15K		1/16W	R779			3.9K	5%	1/16W
R718	1-218-875-11	RES, CHIP	15K		1/16W	R780		METAL CHIP	3.9K	5%	1/16W
										•	.,
R719		METAL CHIP	0	5%	1/16W	R781	1-216-849-11	METAL CHIP	220K	5%	1/16W
R720	1-216-833-11		10K	5%	1/16W	R782	1-218-823-11		100	0.50%	1/16W
R721	1-218-823-11		100	0.50%		R783	1-218-290-11		6.2K	5%	1/16W
R722	1-218-887-11		47K	0.50%		R784	1-218-290-11	RES,CHIP	6.2K	5%	1/16W
R723	1-216-837-11	METAL CHIP	22K	5%	1/16W	R785	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
D704	1 040 004 44	MATTAL OLUB									
R724	1-216-864-11		0	5%	1/16W	R786	1-218-882-11		30K	0.50%	1/16W
R725	1-216-833-11		10K	5%	1/16W	R787	1-218-862-11		4.3K	0.50%	1/16W
R726 R727	1-218-823-11 1-216-845-11		100	0.50%		R788	1-216-831-11		6.8K	5%	1/16W
R728	1-216-845-11	METAL CHIP METAL CHIP	100K	5%	1/16W	R789	1-216-829-11		4.7K	5%	1/16W
11/20	1-210-045-11	WETAL UNIP	100K	5%	1/16W	R790	1-218-823-11	RES,CHIP	100	0.50%	1/16W
R729	1-216-845-11	METAL CHIP	100K	5%	1/16W	R791	1-216-809-11	METAL CHID	100	E0/	4/4/01/4
R730	1-216-845-11	METAL CHIP	100K	5%	1/16W	R792	1-216-840-11		100 39K	5% 5%	1/16W 1/16W
R731	1-216-837-11		22K	5%	1/16W	R793	1-218-823-11		100	0.50%	
R732	1-216-833-11		10K	5%	1/16W	R794	1-216-833-11		10K	5%	1/16W 1/16W
R733	1-216-833-11		10K	5%	1/16W	R795	1-216-840-11		39K	5%	1/16W
						111.00	. 210 010 11	MEMEONII	OOK	370	1/1000
R734	1-218-887-11	RES,CHIP	47K	0.50%	1/16W	R796	1-216-809-11	METAL CHIP	100	5%	1/16W
R735	1-216-833-11	METAL CHIP	10K	5%	1/16W	R797	1-216-821-11		1K	5%	1/16W
R736	1-216-833-11		10K	5%	1/16W	R798	1-218-847-11	RES,CHIP	1K	0.50%	1/16W
R737	1-216-833-11		10K	5%	1/16W	R799	1-218-847-11		1K	0.50%	
R738	1-216-833-11	METAL CHIP	10K	5%	1/16W	R801	1-218-831-11	RES,CHIP	220	0.50%	1/16W
0700	4.040.040.41	BAFTAL OUG									
R739	1-216-819-11		680	5%	1/16W	R804	1-216-840-11		39K	5%	1/16W
R740	1-216-819-11		680	5%	1/16W	R805	1-216-840-11		39K	5%	1/16W
R741	1-216-833-11		10K	5%	1/16W	R807	1-216-864-11		0	5%	1/16W
R742	1-218-871-11		10K	0.50%	1/16W	R809		METAL CHIP	10K	5%	1/16W
R743	1-216-841-11	METAL CHIP	47K	5%	1/16W	R810	1-216-833-11	METAL CHIP	10K	5%	1/16W
R744	1-216-833-11	METAL CHID	101/	E0/	1/10/1	D044	4 040 000 44	METAL OLUB	1016		
R745	1-216-833-11		10K 10K	5%	1/16W	R811		METAL CHIP	10K	5%	1/16W
R746	1-216-841-11		47K	5% 5%	1/16W	R812	1-216-833-11		10K	5%	1/16W
R747	1-216-833-11		10K	5% 5%	1/16W 1/16W	R813 R814	1-216-833-11 I 1-216-833-11 I		10K		1/16W
	1-218-871-11		10K	0.50%	1/16W	R880		METAL CHIP METAL CHIP	10K 0		1/16W
				3.00 /0	17.1000	11000	1 4 10-004-11 1	VILIAL UTIL	U	J 70	1/16W
R749	1-216-833-11	METAL CHIP	10K	5%	1/16W	R948	1-216-170-00 F	RES CHIP	68	5%	1/8W
R750	1-216-833-11		10K	5%	1/16W	R949	1-216-170-00 F	* .	68		1/8W
R753	1-218-332-11		130K	5%	1/16W	R951	1-216-037-00 N		330		1/10W
R754	1-218-332-11		130K	5%	1/16W	R952	1-216-170-00 F		68		1/8W
R755	1-218-871-11		10K	0.50%	1/16W	R953	1-216-170-00 F		68		1/8W
				7			,,,	-,-,			.,
R756	1-218-293-11		24K	5%	1/16W	R955	1-216-170-00 F	RES,CHIP	68	5%	1/8W
R757	1-218-293-11	•	24K	5%	1/16W	R956	1-216-170-00 F		68		1/8W
R758	1-216-833-11	METAL CHIP	10K	5%	1/16W	R957	1-216-061-00 N	NETAL CHIP	3.3K		1/10W

## HP-118 JC-19

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
								•			
R959 R960	1-218-867-11 1-218-871-11		6.8K 10K		1/16W 1/16W	C158 C159		TANTAL. CHIP TANTAL. CHIP	10uF 10uF	20% 20%	6.3V 6.3V
		< VARIABLE RESI	STOR >			C160	1-162-974-11	CERAMIC CHIP	0.01uF		50V
						C161	1-162-974-11	CERAMIC CHIP	0.01uF		50V
RV001	1-238-612-11	RES, VAR, CARBO	N 20K/20I	(PHONE	E LEVEL)	C162	1-162-974-11	CERAMIC CHIP	0.01uF		50V
RV002	1-238-744-11	RES, VAR, CARBO	ON, 50K (IN	IPUT LEV	(EL CH-1)	C163	1-162-974-11	CERAMIC CHIP	0.01uF		50V
RV003	1-238-744-11	RES, VAR, CARBO	N, 50K (IN	IPUT LEV	(EL CH-2)	C164	1-162-974-11	CERAMIC CHIP	0.01uF		50V
RV201	1-241-481-11	RES, ADJ, CERME	T 100K		•						
RV202	1-241-481-11	RES, ADJ, CERME	T 100K			C165	1-162-974-11	CERAMIC CHIP	0.01uF		50V
						C166	1-162-974-11	CERAMIC CHIP	0.01uF		50V
						C167	1-162-974-11	CERAMIC CHIP	0.01uF		50V
*	A-7067-130-A	JC-19 BOARD, CO	MPLETE (	DSR-40)		C168	1-162-974-11	CERAMIC CHIP	.0.01uF		50V
*	A-7067-126-A	JC-19 BOARD, CC		DSR-40P	')	C170	1-162-974-11	CERAMIC CHIP	0.01uF		50V
		***		of No. 5 0	00 Series)	C171	1-162-974-11	CERAMIC CHIP	0.01uF		50V
			(110	77.110. 0,0	00 001100)	C172		CERAMIC CHIP	0.01uF		50V
	7-685-132-19	SCREW +P 2.6X5	TYPE2 NO	N-SLIT		C173		TANTAL. CHIP	47uF	20%	6.3V
	7 000 102 10	CONTENT IT ELONG		0		C174		TANTAL. CHIP	47uF	20%	6.3V
		< CAPACITOR >				C175		TANTAL. CHIP	47uF	20%	6.3V
0101	1-104-847-11	TANTAL CUID	22uF	20%	4V	C179	1_125_250_11	TANTAL, CHIP	10uF	20%	6.3V
C101 C102	1-104-847-11		22uF	20%	4V	C179		CERAMIC CHIP	0.01uF	20 /0	50V
C102	1-104-847-11		22uF	20%	4V	C180		CERAMIC CHIP	33PF	5%	50V
C103		TANTALUM CHIP		20%	20V	C182		TANTAL. CHIP	10uF	20%	6.3V
C107		TANTALUM CHIP		20%	20V	C183		TANTAL. CHIP	10uF	20%	6.3V
0100	1-135-177-21	TANTALOW OTHE	TUI	20 /0	200	0103	1-100-209-11	IANIAL. OIIII	Toul	2070	0.00
C109	1-135-177-21	TANTALUM CHIP	1uF	20%	20V	C184	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C110	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C185	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C111	1-135-259-11		10uF	20%	6.3V	C186	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C112	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	C187		TANTAL. CHIP	22uF	20%	4V
C116	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C201	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C117	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C202	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V
C118		CERAMIC CHIP	0.01uF		50V	C203		CERAMIC CHIP	0.01uF	10%	25V
C119		CERAMIC CHIP	10PF	0.5PF	50V	C204		CERAMIC CHIP	0.01uF	10%	25V
C120		CERAMIC CHIP	10PF	0.5PF	50V	C205		CERAMIC CHIP	0.01uF	10%	25V
C121		CERAMIC CHIP	10PF	0.5PF	50V	C206	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C122	1_162_07/_11	CERAMIC CHIP	0.01uF		50V	C207	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C123		CERAMIC CHIP	0.01uF		50V	C208		CERAMIC CHIP	0.01uF	10%	25V
C124		CERAMIC CHIP	0.01uF		50V	C209		CERAMIC CHIP	0.01uF	10%	25V
C125		CERAMIC CHIP	0.01uF		50V	C210		TANTAL. CHIP	10uF	20%	6.3V
C127	1-135-259-11		10uF	20%	6.3V	C211		CERAMIC CHIP	0.1uF	10%	16V
0100	1 160 074 11	CERAMIC CHIP	0.01uF		50V	C212	1 104 947 11	TANTAL. CHIP	22uF	20%	4V
C128 C129	1-135-259-11		10uF	20%	6.3V	C214		CERAMIC CHIP	82PF	5%	50V
C130		CERAMIC CHIP	0.01uF	2070	50V	C215		CERAMIC CHIP	390PF	5%	50V
C130		CERAMIC CHIP	0.01uF		50V	C216		CERAMIC CHIP	0.01uF	J /0	50V
C132	1-135-259-11		10uF	20%	6.3V	C217		TANTAL. CHIP	10uF	20%	6.3V
0102	1 100 200 11	mental, orm	7001	2070	0.01	92				2070	
C133		CERAMIC CHIP	0.01uF		50V	C218	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C135		CERAMIC CHIP	0.01uF		50V	C219		TANTAL. CHIP	10uF	20%	6.3V
C136		CERAMIC CHIP	0.01uF		50V	C220		TANTAL. CHIP	47uF	20%	6.3V
C137	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C221		CERAMIC CHIP	0.01uF	10%	25V
C138	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C223	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C139	1-135-259-11	TANTAL, CHIP	10uF	20%	6.3V	C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C141	1-135-259-11		10uF	20%	6.3V	C225		TANTALUM CHIP		20%	20V
C143	1-135-259-11		10uF	20%	6.3V	C226		CERAMIC CHIP	0.0047uF		50V
C148		CERAMIC CHIP	0.01uF		50V	C227		CERAMIC CHIP	0.0033uF	10%	50V
C149			0.01uF		50V	C229	1-104-912-11	TANTAL. CHIP	3.3uF	20%	16V
C150	1-169-07/-11	CERAMIC CHIP	0.01uF		50V	C231	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C150	1-102-974-11		10uF	20%	6.3V	C233		CERAMIC CHIP	2PF	0.25PF	
C151	1-135-259-11		10uF	20%	6.3V	C234		CERAMIC CHIP	0.01uF	0.2011	50V
C152	1-135-259-11		10uF	20%	6.3V	C234		CERAMIC CHIP	0.01uF		50V
C154	1-135-259-11		10uF	20%	6.3V	C241		CERAMIC CHIP	0.001uF	10%	50V
C155	1-135-259-11		10uF	20%	6.3V	C243		CERAMIC CHIP		E 0/	16V
C156	1-135-259-11		10uF	20%	6.3V 6.3V	C245		CERAMIC CHIP	15PF	5%	50V 50V
C157	1-135-259-11	TAIVIAL. UNIP	10uF	20%	6.3V	C246	1-102-9/4-11	CERAMIC CHIP	บ.บานะ		50V

#### JC-19

		-											
R	ef. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description			Remark	
	C247	1-162-974-11	CERAMIC CHIP	0.01uF		50V	C517	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
	C248		CERAMIC CHIP	0.01uF		50V	C518	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
	C249	1-104-908-11	TANTAL. CHIP	47uF	20%	4V	C519	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
	C250	1-162-970-11		0.01uF	10%	25V	C520	1-162-919-11		22PF	5%	50V	
				0.01uF	10%	25V	C521	1-162-970-11		0.01uF	10%	25V	
	C252		CERAMIC CHIP								10 /0		
	C253		CERAMIC CHIP	0.01uF	10%	25V	C522	1-164-360-11		0.1uF	000/	16V	
	C254	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C523	1-104-851-11	TANTAL. CHIP	10uF	20%	10V	
	C255	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V	C524	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
	C256		CERAMIC CHIP	0.01uF		50V	C701	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	
	C257		CERAMIC CHIP	1000PF	5%	50V	C702	1-164-360-11		0.1uF		16V	
	C258		CERAMIC CHIP	0.001uF	10%	50V	C703	1-164-360-11		0.1uF		16V	
	C259		CERAMIC CHIP	100PF	5%	50V	C704		TANTAL. CHIP	10uF	20%	6.3V	
	C260	1-104-912-11	TANTAL, CHIP	3.3uF	20%	16V	C705	1-164-360-11	CERAMIC CHIP	0.1uF		16V	
	C261		CERAMIC CHIP	0.033uF	10%	16V	C706	1-164-360-11		0.1uF		16V	
			CERAMIC CHIP	0.22uF	10 /0	16V	C707	1-164-360-11		0.1uF		16V	
	C262				400/					0.1uF		16V	
	C401		CERAMIC CHIP	0.1uF	10%	16V	C708	1-164-360-11					
	C402	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C709	1-164-360-11	CERAMIC CHIP	0.1uF		16V	
	C403	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C710	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	
	C404	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C711	1-164-360-11	CERAMIC CHIP	0.1uF		16V	
	C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C712	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
	C406		CERAMIC CHIP	0.1uF	10%	16V	C713	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	
	C407		TANTAL, CHIP	10uF	20%	6.3V	C714	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	0400	1-135-259-11	TANTAL, CHIP	10uF	20%	6.3V	C715	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
	C408							1-162-974-11	CERAMIC CHIP	0.01uF	0 70	50V	
	C410	1-162-970-11		0.01uF	10%	25V	C801				E0/		
	C412		CERAMIC CHIP	0.01uF	10%	25V	C802	1-162-923-11		47PF	5%	50V	
	C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C803	1-162-915-11		10PF	0.5PF	50V	
	C421	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V	C804	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
	C422	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C807	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V	
	C423	1-162-964-11		0.001uF	10%	50V	C809	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
	C424		CERAMIC CHIP	0.001uF	10%	50V	C810	1-110-569-11		47uF	20%	6.3V	
			CERAMIC CHIP	0.047uF	10%	16V	C811	1-162-923-11		47PF	5%	50V	
	C425 C426		CERAMIC CHIP	2.2uF	10 /0	16V	C812	1-110-569-11		47uF	20%	6.3V	
	0.407	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C813	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
	C427				10 /6	16V	C814	1-162-974-11		0.01uF		50V	
	C428		CERAMIC CHIP	0.1uF							10%	25V	
	C429		CERAMIC CHIP	0.1uF	1001	16V	C815		CERAMIC CHIP	0.01uF	1076		
	C430		CERAMIC CHIP	0.001uF	10%	50V	C816		CERAMIC CHIP	0.01uF		50V	
	C431	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C831	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	
	C432	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C832	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	
	C433		CERAMIC CHIP	0.001uF	10%	50V	C833		TANTAL. CHIP	47uF	20%	6.3V	
			CERAMIC CHIP	0.001uF	10%	50V	C834		TANTALUM CHIP		20%	4V	
	C434					16V	C835		TANTALUM CHIP		20%	4V	
	C435 C436		CERAMIC CHIP	0.047uF 2.2uF	10%	16V	C837	1-162-923-11		47PF	5%	50V	
	C437		CERAMIC CHIP	1uF	10%	10V	C838	1-135-259-11		10uF	20%	6.3V	
	C438	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C839	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C439	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C840	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	
	C440		CERAMIC CHIP	10PF	0.5PF	50V	C843	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C441		CERAMIC CHIP	0.01uF	10%	25V	C844	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
	C442	1_135_950_11	TANTAL. CHIP	10uF	20%	6.3V	C845	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	
				0.01uF	10%	25V	C846		TANTAL. CHIP	22uF	20%	4V	
	C501	1-162-970-11							CERAMIC CHIP	2200PF	5%	16V	
	C502		CERAMIC CHIP	0.01uF	10%	25V	C847						
	C503		TANTAL. CHIP	10uF	20%	10V	C848		CERAMIC CHIP	2200PF	5%	16V	
	C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C849	1-135-181-21	TANTALUM CHIP	4./uF	20%	6.3V	
	C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C850	1-164-392-11	CERAMIC CHIP	390PF	5%	50V	
	C506		CERAMIC CHIP	0.01uF	10%	25V	C851		CERAMIC CHIP	390PF	5%	50V	
	C511	1-135-259-11		10uF	20%	6.3V	C852		CERAMIC CHIP	0.1uF		16V	
	C512		CERAMIC CHIP	0.1uF	_0 /0	16V	C853		TANTALUM CHIP		20%	6.3V	
	C512		CERAMIC CHIP	0.1ur 0.022uF	10%	25V	C854		TANTALUM CHIP		20%	10V	
	0010												
	C514	1-164-360-11		0.1uF		16V	C855		CERAMIC CHIP	0.001uF	10%	50V	
	C515		CERAMIC CHIP	0.01uF	10%	25V	C856		CERAMIC CHIP	0.001uF	10%	50V	
	C516	1-104-847-11	TANTAL. CHIP	22uF	20%	4V	C857	1-164-360-11	CERAMIC CHIP	0.1uF		16V	

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description	Remark
C859	1-164-360-11	CERAMIC CHIP	0.1uF		16V	D422	8-719-055-86	DIODE KV1470TL1-3	
C860	1-135-181-21	TANTALUM CHIP		20%	6.3V	D423	8-719-027-95	DIODE HSM88WK-TL	
						D424	8-719-055-86	DIODE KV1470TL1-3	
C861	1-164-360-11	CERAMIC CHIP	0.1uF		16V	D.405	0 740 055 06	DIODE KV1470TL1-3	
C862	1-135-151-21	TANTALUM CHIP		20%	4V	D425		DIODE MA111-TX	
C863	1-165-176-11		0.047uF	10%	16V 10V	D501 D503	8-719-404-30 8-710-491-97	DIODE MA728-TX	
C864	1-115-467-11		0.22uF	10% 20%	6.3V	D503	8-719-404-50	DIODE MA111-TX	
C865	1-110-569-11	IANIAL. CHIP	47uF	20 /0	0.50	D901	8-719-404-50	DIODE MA111-TX	
C901	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V				•
C902	1-164-360-11	CERAMIC CHIP	0.1uF		16V	D902	8-719-055-86	DIODE KV1470TL1-3	
C903	1-164-360-11		0.1uF		16V	D903		DIODE MA111-TX	
C904	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	D910	8-719-404-50	DIODE MA111-TX	
C905	1-164-360-11	CERAMIC CHIP	0.1uF		16V			PEDDITE DEAD	
				000/	0.017			< FERRITE BEAD >	
C906		TANTAL. CHIP	47uF	20%	6.3V	FB401	1-543-955-22	FERRITE OUH	
C907	1-164-360-11		0.1uF		16V 16V	FB402	1-543-955-22		
C908	1-164-360-11		0.1uF	20%	6.3V	10402	1-040-000-22	TENTIFIC CONT	
C909	1-135-259-11		10uF 0.22uF	10%	10V			< FILTER >	
C910	1-115-467-11	CERAINIC CHIP	U.ZZUF	10 /0	100			The total	
C911	1-164-360-11	CERAMIC CHIP	0.1uF		16V	FL101	1-233-345-21		
C912	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V	FL102		FILTER, LOW PASS (5.5MHz)	
C914		CERAMIC CHIP	0.0022uF	10%	50V	FL103	1-233-345-21	FILTER, LOW PASS (5.5MHz)	
C915		CERAMIC CHIP	0.01uF	10%	25V				
C916		CERAMIC CHIP	47PF	5%	50V			< IC >	
				000/	0.014	10000	0 750 220 70	IC BA10324AFV-E2	
C917	1-135-181-21	TANTALUM CHIP		20%	6.3V 50V	IC009 IC010		IC BA10324AFV-E2	
C919		CERAMIC CHIP	1000PF 1000PF	5% 5%	50V	10010	8-759-338-78		
C920		CERAMIC CHIP	1000PF	5%	50V	IC012	8-759-338-78		
C921 C922	1-104-337-11	CERAMIC CHIP	4.7uF	10%	10V	10013	8-759-510-71	IC BA10358F-E2	
0322	1-110-000-11	OLI I WING OTHE	117 41						
C924	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC014		IC NJM431M(TE2)	
C926	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	IC015		IC CXD2300Q-T4	
C927	1-162-908-11	CERAMIC CHIP	3PF	0.25PF		IC016		IC CXD2300Q-T4	
C929	1-164-357-11	CERAMIC CHIP	1000PF	5%	50V	IC017		IC CXD2300Q-T4	
C930	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	IC018	8-759-523-03	IC TC74HC4066AFT(EL)	
0004	4 445 467 44	CERAMIC CHIP	0.22uF	10%	10V	IC019	8-759-447-75	IC S-81322HG-KW-T1	
C931	1-115-467-11 1-162-927-11		100PF	5%	50V	IC200	8-752-380-04		
C932 C933	1-164-357-11		1000PF	5%	50V	IC205		IC CXD2193AR-ER	
C934		CERAMIC CHIP	100PF	5%	50V	IC206		IC TC7S08FU(TE85R)	
C935		CERAMIC CHIP	0.1uF		16V	IC207	8-759-368-81	IC TK11630UTL	
	•							10 TOT WILD 100 (FT/FL)	
C936		CERAMIC CHIP	100PF	5%	50V	1C209		IC TC74VHC123AFT(EL)	
C937		CERAMIC CHIP	1000PF	5%	50V	IC210	8-759-485-79	IC TC7SET08FU(TE85R) IC TC74HC221AF(EL)	
C940		CERAMIC CHIP	1000PF	5%	50V	IC211 IC212		IC TC7W00FU(TE12R)	
C941		CERAMIC CHIP	1uF	10% 10%	10V 16V	IC212		IC TC74HC4053AFT(EL)	
C942	1-107-826-91	CERAMIC CHIP	0.1uF	1070	100 .	10210	0 700 020 02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
		< CONNECTOR >				IC214	8-759-491-31	IC TC74VHCT00AF(EL)	
		(001112070117				IC401		IC CXD3103R	
CN101	1-506-474-11	PIN, CONNECTO	R 9P			IC402	8-759-328-28		
CN103	1-774-666-11	CONNECTOR, FF	C/FPC 30P			IC403	8-759-328-28	IC ZA4024	
CN104	1-774-666-11	CONNECTOR, FF	C/FPC 30P			IC410	8-759-433-17	IC uPD482445LG4-B10-9MH-E	2-HDC
CN411	1-750-345-11	CONNECTOR, FF	C/EPC (ZIF)	30P					
CN412	1-750-345-11	CONNECTOR, FF	C/EPC (ZIF)	30P		IC411	8-759-525-63	IC uPD82094GD-001-LKL	
						IC421		IC CXP912032-074R-T6	
* CN501	1-691-591-11	PIN, CONNECTO	R (1.5MM)	(SMD)8P	,	10422		IC CXD3106R IC S579174PZ-TEB	
CN503	1-750-303-41	CONNECTOR, BO	DAKD TO BO	JARU 201	,	IC501		IC AK6440AM-E2	
* CN701	1-564-005-11	PIN, CONNECTO PIN, CONNECTO	D (1 57444)	(CMID) QD	•	IC502	U-108-440-80	IO AROTTUANI LE	
* CN831	1-186-160-1	FIN, CONNECTO	rr (1.51VIIVI)	יסומוט)סר		IC503	8-759-058-58	IC TC7S04FU(TE85R)	
		< TRIMMER >				IC504	8-759-427-85	IC MB88146APFV-G-BND-ER	
		> 11 minimizate >				IC510	8-759-431-95	IC S-81230SGUP-DQB-T1	
CT201	1-141-423-61	CAP, ADJ 20PF (	AFC)			IC511	8-759-512-69	IC S-81350HG-KD-T1	
0,201		, , , , , , , , , , , , , , , , , , , ,				IC701	8-759-430-56	IC CXD2194AR	
		< D10DE >						10 TOB4411/04 PT TTT	
						10702		IC TSB11LV01PT-TEB	
D201		DIODE KV1470				10703		IC HD6433837TB55X IC CXD2705AQ	
D421	8-719-027-95	DIODE HSM88	WK-IL		•	IC801	0-102-002-00	IO UNDEFUUNK	•

# JC-19

		*							
Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description		<u>Remark</u>	
IC802		IC TLV431ACDBV2				< TRANSISTOR	₹>		
IC804		IC TC74ACT08FS(EL)							
	•			Q026			2SC4081T106R	200	
IC805		IC CXD3107R	,	Q027 Q028			2SC4081T106R 2SC4081T106R		
IC807 IC831		IC TC74LCX08FT(EL) IC NJM2115V(TE2)		Q029			2SC3326N-TE85L	B	
IC832		IC NJM2115V(TE2)		Q030			2SC3326N-TE85L		
IC833		IC NJM2115V(TE2)		7					
				Q031			2SC3326N-TE85L		
10835		IC NJM2115V(TE2) IC NJM2115V(TE2)		Q032 Q033			2SA1576A-T106-I 2SA1576A-T106-I		
IC836 IC837		IC AK4520A-VF-E2		Q033			2SA1576A-T106-		
1C838		IC TK15125MTL		Q035			2SC4081T106R		
IC840		IC NJM2115V(TE2)							
10044	0.750.404.00	IO TOZEGECE/TEGED		Q036			2SC4081T106R 2SC4081T106R		
IC841 IC901		IC TC75S56F(TE85R) IC TC74VHC123AFT(EL)		Q037 Q039			2SA1576A-T106-	R	
IC902		IC TC74VHC74FT(EL)		Q040			2SC4081T106R		
IC903	8-759-083-94	IC TC7W74FU(TE12R)		Q041	8-729-026-52	TRANSISTOR	2SA1576A-T106-	R	
IC904	8-759-429 <b>-</b> 28	IC CXD8630R		0040	0.700.005.05	TRANSIOTOR	000400474000		
10000	0.750.500.07	10 TO74VUC100AET/ELV		Q042 Q043			2SC4081T106R 2SA1576A-T106-	R	
IC906 IC907		IC TC74VHC123AFT(EL) IC TC7S86FU(TE85R)		Q044			2SC4081T106R	11	
IC908		IC TC7W08FU(TE12R)		Q045			2SA1576A-T106-	R	
IC909	8-759-523-95	IC TC74VHC74FT(EL)		Q048	8-729-402-42	TRANSISTOR	UN5213-TX		
IC911	8-759-327-04	IC CXD2913Q		0050	0.700.005.05	TRANSICTOR	2004001T100D		
IC914	0 750 405-40	IC TLV2231CDBV2		Q050 Q051		TRANSISTOR	2SC4081T106R XP6501-TXF		
IC914		IC TC4W53FU(TE12R)		Q052			2SC4081T106R		
IC916		IC TC7S08FU(TE85R)		Q053	8-729-427-83	TRANSISTOR	XP6501-TXE		
			•	Q200	8-729-905-35	TRANSISTOR	2SC4081T106R		
		< COIL >		Q201	9 720 026 52	TDANCICTOD	2SA1576A-T106-	D	
L011	1-414-398-11	INDUCTOR 10uH		Q501			2SC4081T106R	11	
L012	1-414-398-11			Q502	8-729-905-35	TRANSISTOR	2SC4081T106R		
L013	1-414-398-11	INDUCTOR 10uH		Q504		TRANSISTOR			
L014	1-414-398-11			Q505	8-729-427-70	TRANSISTOR	XP4401-TXE		
L015	1-414-398-11	INDUCTOR 10uH		Q506	8-729-101-07	TRANSISTOR	2SB798-T1-DLDK		
L016	1-414-398-11	INDUCTOR 10uH		Q801			2SC4081T106R	•	
L017	1-414-398-11			Q832	8-729-015-74	TRANSISTOR	UN5111-TX		
L018	1-414-398-11			Q902			2SC4081T106R		
L102	1-414-398-11			Q903	8-729-402-42	TRANSISTOR	UN5213-TX		
L200	1-414-398-11	INDUCTOR 10uH		Q910	8-729-015-76	TRANSISTOR	UN5211-TX		
L202	1-410-390-11	INDUCTOR CHIP 56uH		Q911		TRANSISTOR			
L203	1-414-398-11	INDUCTOR 10uH							•
L204	1-414-398-11					< RESISTOR >			
L205		COIL, VARIABLE INDUCTOR CHIP 120uH		R002	1_016_96/_11	METAL CHIP	0 5%	1/16W	
L206	1-410-000-01	INDUCTOR UNIP 12000		R003	1-414-760-21		OUH	171000	
L401	1-414-398-11	INDUCTOR 10uH		R004	1-414-760-21		OUH		
L402	1-414-398-11	INDUCTOR 10uH		R005	1-414-760-21		0UH		
L421		INDUCTOR CHIP 0.82uH		R009	1-414-760-21	FERRITE	OUH		
L422		INDUCTOR CHIP 5.6uH INDUCTOR 10uH		R010	1-216-864-11	METAL CHIP	0 5%	1/16W	
L423	1-414-398-11	INDUCTOR TOUR		R012	1-216-864-11		0 5%		
L424	1-410-385-11	INDUCTOR CHIP 22uH		R013	1-216-864-11		0 5%	1/16W	
L501	1-414-398-11	INDUCTOR 10uH		R014	1-216-864-11		0 5%		
L701		INDUCTOR CHIP 4.7uH		R015	1-216-864-11	METAL CHIP	0 5%	1/16W	
L702 L703	1-414-398-11 1-410-393-11	INDUCTOR 10uH INDUCTOR CHIP 100uH		R016	1-216-864-11	METAL CHIP	0 5%	1/16W	
L/03	1-410-030-11	INDUCTOR OTHE TOURS		R017	1-414-760-21		OUH		
L801	1-410-369-11	INDUCTOR CHIP 1uH		R018	1-414-760-21	FERRITE	OUH		
L802	1-410-381-11	INDUCTOR CHIP 10uH		R020	1-414-760-21		0UH		
L901	1-414-398-11			R021	1-414-760-21	FERRITE	OUH		
L904 L905	1-414-398-11 1-411-273-21			R023	1-216-864-11	METAL CHIP	0 5%	1/16W	
Fano	1-411-210-41	OOIE, VAIIIVOFF		R030	1-414-760-21		OUH		
L907	1-414-398-11	INDUCTOR 10uH		R033	1-216-864-11		0 5%		•
				R034	1-216-864-11		0 5%		
			İ	R036	1-216-864-11	WE TAL CHIP	0 5%	1/16W	

										,	
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			<u>Remark</u>
R037	1-216-864-11	METAL CHIP	0	5%	1/16W	R143	1-216-835-11	METAL CHIP	15K	5%	1/16W
R038	1-414-760-21		OUH			R145	1-216-821-11	METAL CHIP	1K	5%	1/16W
R039	1-216-864-11		0	5%	1/16W	R146	1-216-821-11 1-216-821-11	METAL CHIP METAL CHIP	1K 1K	5% 5%	1/16W 1/16W
R040	1-414-760-21 1-414-760-21		OUH OUH			R147 R148	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R041	1-414-700-21	FERRITE	UUH			11140	1 210 000 11	WEITE OIII	0.01	0,0	,,,,,,,
R042	1-414-760-21	FERRITE	OUH			R149	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R043	1-216-864-11	METAL CHIP	0	5%	1/16W	R150	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R044	1-414-760-21		OUH	<b>F</b> 0/	4 /4 (14)	R151	1-216-824-11 1-216-835-11	METAL CHIP	1.8K 15K	5% 5%	1/16W 1/16W
R045 R046	1-216-864-11 1-216-864-11		0 0	5% 5%	1/16W 1/16W	R152 R154	1-216-809-11		100	5%	1/16W
NU40	1-210-004-11	WEIAL OITH		3 70	1/1044	11104	1 210 000 11	mente onn			
R047	1-216-864-11	METAL CHIP	0	5%	1/16W	R155	1-216-809-11		100	5%	1/16W
R048	1-414-760-21		OUH			R156	1-216-809-11	METAL CHIP	100	5% 5%	1/16W 1/16W
R049	1-414-760-21 1-414-760-21		OUH			R157 R159	1-216-864-11 1-216-805-11	METAL CHIP	0 47	5%	1/16W
R050 R052	1-414-760-21		OUH			R160	1-216-821-11	METAL CHIP	1K	5%	1/16W
11002	1414 700 21	72111112	00.1								
R053	1-414-760-21		OUH			R161	1-216-821-11	METAL CHIP	1K	5%	1/16W
R054	1-414-760-21		OUH			R162 R163	1-216-823-11 1-216-864-11	METAL CHIP METAL CHIP	1.5K 0	5% 5%	1/16W 1/16W
R055 R056	1-414-760-21 1-414-760-21		OUH			R164	1-216-816-11	METAL CHIP	390	5%	1/16W
R057	1-414-760-21		OUH			R165	1-216-864-11	METAL CHIP	0	5%	1/16W
				501	4 /4 0144	D400	4 040 000 44	METAL OUID	1711	5%	1/16W
R059	1-216-837-11		22K	5%	1/16W 1/16W	R166 R167	1-216-829-11 1-216-823-11	METAL CHIP	4.7K 1.5K	5% 5%	1/16W
R060 R061	1-216-818-11 1-216-817-11		560 470	5% 5%	1/16W	R168	1-216-835-11	METAL CHIP	15K	5%	1/16W
R062	1-216-821-11		1K	5%	1/16W	R169	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R063	1-216-825-11		2.2K	5%	1/16W	R170	1-216-864-11	METAL CHIP	0	5%	1/16W
D004	4 040 005 44	METAL CLUD	2.2K	5%	1/16W	R173	1-216-821-11	METAL CHIP	1K	5%	1/16W
R064 R065	1-216-825-11 1-216-837-11	METAL CHIP	2.2K	5%	1/16W	R174	1-216-821-11	METAL CHIP	1K	5%	1/16W
R067	1-216-818-11		560	5%	1/16W	R175	1-216-813-11	METAL CHIP	220	5%	1/16W
R068	1-216-817-11	METAL CHIP	470	5%	1/16W	R176	1-216-821-11	METAL CHIP	1K	5%	1/16W
R069	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R177	1-216-821-11	METAL CHIP	1K	5%	1/16W
R070	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R178	1-216-817-11	METAL CHIP	470	5%	1/16W
R071	1-216-821-11		1K	5%	1/16W	R182	1-216-821-11		1K	5%	1/16W
R113	1-216-829-11		4.7K	5%	1/16W	R183	1-216-821-11		1K	5%	1/16W
R115	1-216-837-11 1-216-837-11		22K 22K	5% 5%	1/16W 1/16W	R184 R185	1-216-817-11 1-216-821-11		470 1K	5% 5%	1/16W 1/16W
R116	1-210-037-11	WE TAL OTHE	221	3 /8	171000	11100	1 210 021 11	MEINE OIII			171011
R117	1-216-837-11		22K	5%	1/16W	R186	1-216-821-11		1K	5%	1/16W
R118	1-216-821-11		1K	5%	1/16W	R187	1-216-817-11 1-216-821-11		470 1K	5% 5%	1/16W 1/16W
R119 R120	1-216-821-11 1-216-821-11		1K 1K	5% 5%	1/16W 1/16W	R192 R199	1-216-821-11		1K	5%	1/16W
R121	1-216-864-11		0	5%	1/16W	R201	1-216-821-11		1K	5%	1/16W
R122	1-216-864-11		0	5%	1/16W	R203	1-216-864-11 1-216-827-11	METAL CHIP	0 3.3K	5% 5%	1/16W 1/16W
R123 R124	1-216-864-11 1-216-833-11		0 10K	5% 5%	1/16W 1/16W	R204 R205	1-216-864-11		0	5%	1/16W
R125	1-216-833-11		10K	5%	1/16W	R206	1-216-864-11		Ö	5%	1/16W
R126	1-216-825-11		2.2K	5%	1/16W	R207	1-216-864-11	METAL CHIP	0	5.%	1/16W
D.107	1 010 000 11	ASSTAL OUID	0.01/	E0/	4 /4 (2) 8/	D000	1 010 007 11	METAL CHIP	3.3K	5%	1/16W
R127 R128	1-216-832-11 1-216-809-11		8.2K 100	5% 5%	1/16W 1/16W	R208 R209	1-216-827-11 1-216-864-11		0	5%	1/16W
R129	1-216-809-11		100	5%	1/16W	R210	1-216-864-11		Ö	5%	1/16W
R130	1-216-809-11		100	5%	1/16W	R211	1-216-833-11	METAL CHIP	10K	5%	1/16W
R131	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R212	1-216-864-11	METAL CHIP	0	5%	1/16W
R133	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R213	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R134	1-216-829-11		4.7K	5%	1/16W	R214	1-216-833-11	METAL CHIP	10K	5%	1/16W
R135	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R215	1-216-840-11	METAL CHIP	39K	5%	1/16W
R136	1-216-830-11		5.6K	5% 5%	1/16W	R216	1-216-864-11 1-216-828-11		0 3.9K	5% 5%	1/16W 1/16W
R137	1-216-833-11	IVICIAL UNIP	10K	5%	1/16W	R217	1-210-020-11	WILIAL VIII	0.51	J /6	1/1000
R138	1-216-833-11		10K	5%	1/16W	R218			0	5%	1/16W
R139	1-216-821-11		1K	5%	1/16W	R219	1-216-864-11		0	5%	1/16W
R140	1-216-829-11 1-216-829-11		4.7K 4.7K	5% 5%	1/16W 1/16W	R246 R247	1-216-864-11 1-216-821-11		0 1K	5% 5%	1/16W 1/16W
R141 R142	1-216-829-11		1K	5%	1/16W	R248	1-216-817-11		470	5%	1/16W
	//							4			

F	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
-	R249	1-216-817-11		470	E0/	1/16W		1-216-833-11		101/	E0/	
	R250	1-216-821-11	METAL CHIP	1K	5% 5%	1/16W	R425 R426	1-216-821-11	METAL CHIP METAL CHIP	10K 1K	5% 5%	1/16W 1/16W
	R256	1-216-833-11	METAL CHIP	10K	5%	1/16W	R427	1-216-833-11	METAL CHIP	10K	5%	1/16W
	R259	1-216-832-11		8.2K	5%	1/16W	R428	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
	R260	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R429	1-216-845-11		100K	5%	1/16W
	11200	1-210-023-11	MEIAL OIII	7.71	J /0	1/1044	11423	1-210-045-11	METAL OTTE	TOOK	J /6	1/1000
	R261	1-216-814-11	METAL CHIP	270	5%	1/16W	R430	1-216-805-11	METAL CHIP	47	5%	1/16W
	R262	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R431	1-216-817-11	METAL CHIP	470	5%	1/16W
	R264	1-216-833-11	METAL CHIP	10K	5%	1/16W	R432	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R266	1-216-833-11	METAL CHIP	10K	5%	1/16W	R433	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R268	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R434	1-216-805-11		47	5%	1/16W
		. 2.0 020			0.0	.,	11101		meme on		0 70	1, 1011
	R269	1-216-814-11	METAL CHIP	270	5%	1/16W	R435	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R270	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R437	1-216-864-11	METAL CHIP	0	5%	1/16W
	R271	1-216-864-11	METAL CHIP	0	5%	1/16W	R438	1-216-864-11		0	5%	1/16W
	R272	1-216-855-11	METAL CHIP	680K	5%	1/16W	R439	1-216-864-11	METAL CHIP	0	5%	1/16W
	R273	1-216-839-11	METAL CHIP	33K	5%	1/16W	R440	1-216-833-11	METAL CHIP	10K	5%	1/16W
	R274	1-216-864-11	METAL CHIP	0	5%	1/16W	R441	1-216-833-11	METAL CHIP	10K	5%	1/16W
	R276	1-216-833-11	METAL CHIP	10K	5%	1/16W	R442	1-216-815-11	METAL CHIP	330	5%	1/16W
	R277	1-216-839-11	METAL CHIP	33K	5%	1/16W	R443	1-216-805-11	METAL CHIP	47	5%	1/16W
	R278	1-216-864-11	METAL CHIP	0	5%	1/16W	R444	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
	R279	1-216-839-11	METAL CHIP	33K	5%	1/16W	R445	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
	R280	1-216-833-11	METAL CHIP	10K	5%	1/16W	R446	1-216-845-11		100K	5%	1/16W
	R281		METAL CHIP	1K	5%	1/16W	R447	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R282	1-216-839-11	METAL CHIP	33K	5%	1/16W	R448	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R285	1-216-864-11	METAL CHIP	0	5%	1/16W	R449	1-216-821-11		1K	5%	1/16W
	R286	1-216-833-11	METAL CHIP	10K	5%	1/16W	R450	1-216-857-11	METAL CHIP	1M	5%	1/16W
				4.044								
	R288		METAL CHIP	10K	5%	1/16W	R451	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R292		METAL CHIP	10K	5%	1/16W	R452	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R295		METAL CHIP	0	5%	1/16W	R453	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R297	1-216-864-11	METAL CHIP	0	5%	1/16W	R454	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R298	1-216-864-11	METAL CHIP	0	5%	1/16W	R455	1-216-845-11	METAL CHIP	100K	5%	1/16W
	D000	4 040 005 44	METAL OUID	0.01/	F0/	4400	D.450	4 040 045 44	METAL OLUB	40014	50/	4 (4 0) 14
	R299	1-216-825-11		2.2K	5%	1/16W	R456	1-216-845-11		100K	5%	1/16W
	R300		METAL CHIP	2.2K	5%	1/16W	R457	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R301		METAL CHIP	2.2K	5%	1/16W	R458	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R302		METAL CHIP	2.2K	5%	1/16W	R459	1-216-845-11	METAL CHIP	100K	5%	1/16W
	R303	1-216-821-11	METAL CHIP	1K	5%	1/16W	R460	1-216-845-11	METAL CHIP	100K	5%	1/16W
	D204	1 010 015 11	METAL CUID	330	E0/	1/16\\	D464	1 010 004 11	METAL CUID	0	E0/	1/16W
	R304 R313	1-216-815-11 1-216-827-11		3.3K	5% 5%	1/16W 1/16W	R461 R462	1-216-864-11 1-216-864-11		0 0	5% 5%	1/16W
	R314	1-216-815-11		330	5%	1/16W	R463	1-216-864-11		0	5%	1/16W
	R315	1-216-815-11		330	5%	1/16W	R464	1-216-864-11		0	5%	1/16W
	R318	1-216-295-91		0	J /0	171000	R465			0	5%	1/16W
	NOTO	1-210-233-31	SHORT				N400	1-210-004-11	WILLIAL GITT	U	J /0	1/1044
	R319	1-218-864-11	RES CHIP	5.1K	0.50%	1/16W	R466	1-216-864-11	METAL CHIP	0	5%	1/16W
	11010	7 210 004 11	TIEO,OTTI	0.110	0.0070	(DSR-40)	R467	1-216-864-11		0	5%	1/16W
	R319	1-218-865-11	BES CHIP	5.6K	0.50%	1/16W	R468	1-216-864-11		Ö	5%	1/16W
	11010	1 210 000 11	TLO,OTTI	0.010		DSR-40P)	R469	1-216-821-11		1K	5%	1/16W
	R320	1-218-831-11	BES CHIP	220		1/16W	R470	1-216-821-11		1K	5%	1/16W
	11020				0.0070	.,					0,0	.,
	R321	1-218-851-11	RES.CHIP	1.5K	0.50%	1/16W	R471	1-216-821-11	METAL CHIP	1K	5%	1/16W
		1-218-831-11		220		1/16W	R472	1-216-821-11		1K	5%	1/16W
		1-216-864-11		0	5%	1/16W	R502	1-216-809-11		100	5%	1/16W
		1-216-841-11		47K	5%	1/16W	R503	1-216-809-11		100	5%	1/16W
		1-216-841-11	METAL CHIP	47K	5%	1/16W	R504	1-216-864-11	METAL CHIP	0	5%	1/16W
	R342	1-216-864-11	METAL CHIP	0	5%	1/16W	R505	1-216-809-11	METAL CHIP	100	5%	1/16W
		1-216-840-11		39K	5%	1/16W	R506	1-216-864-11		0	5%	1/16W
		1-216-821-11		1K	5%	1/16W	R507	1-216-809-11	METAL CHIP	100	5%	1/16W
		1-216-821-11		1K	5%	1/16W	R508	1-216-864-11		0	5%	1/16W
		1-216-833-11		10K	5%	1/16W	R509	1-216-833-11		10K	5%	1/16W
		1-218-871-11		10K	0.50%	1/16W	R510	1-216-864-11		0	5%	1/16W
			METAL CHIP	1K	5%	1/16W	R511	1-216-833-11		10K	5%	1/16W
			METAL CHIP	47	5%	1/16W	R512	1-216-809-11		100	5%	1/16W
		1-216-805-11		47	5%	1/16W	R513	1-216-809-11		100	5%	1/16W
	R424	1-216-805-11	METAL CHIP	47	5%	1/16W	R514	1-216-809-11	METAL CHIP	100	5%	1/16W
					100							

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		-	400	<b>5</b> 0/			1-216-841-11	METAL CHIP	47K	5%	1/16W
R515	1-216-809-11	METAL CHIP	100	5%	1/16W	R585		METAL CHIP	22K	5%	1/16W
R517	1-216-809-11	METAL CHIP	100	5%	1/16W	R586	1-216-837-11 1-216-837-11	METAL CHIP	22K	5%	1/16W
R518	1-216-809-11	METAL CHIP	100	5%	1/16W	R587		METAL CHIP	10K	5%	1/16W
R524	1-216-841-11	METAL CHIP	47K	5%	1/16W	R701	1-216-833-11			5%	1/16W
R526	1-216-841-11	METAL CHIP	47K	5%	1/16W	R702	1-216-821-11	METAL CHIP	1K ·	3%	1/10VV
				F0/	4 (4 014)	D700	1 016 057 11	METAL CHIP	1M	5%	1/16W
R529	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R703	1-216-857-11	METAL CHIP	10K	5%	1/16W
R530	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R704	1-216-833-11		10K	5%	1/16W
R531	1-216-809-11	METAL CHIP	100	5%	1/16W	R705	1-216-833-11		1K	5%	1/16W
R532	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R706	1-216-821-11		100K	5%	1/16W
R533	1-216-809-11	METAL CHIP	100	5%	1/16W	R707	1-216-845-11	METAL CHIP	IUUN	3 70	1/1044
			4 -14	=0/	4 (4 (0) 1)	D700	4 040 004 44	METAL CHID	0	5%	1/16W
R534	1-216-823-11	METAL CHIP	1.5K	5%	1/16W	R708	1-216-864-11	METAL CHIP	100K	5%	1/16W
R535	1-216-830-11	METAL CHIP	5.6K	5%	1/16W	R709	1-216-845-11	METAL CHIP	100K	5%	1/16W
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R710	1-216-845-11			5%	1/16W
R537	1-216-841-11		47K	5%	1/16W	R711	1-216-833-11		10K		1/16W
R538	1-216-841-11	METAL CHIP	47K	5%	1/16W	R712	1-216-833-11	METAL CHIP	10K	5%	1/1044
	•						1 010 045 44	METAL OLUB	1001/	E0/	1/16W
R539	1-216-841-11		47K	5%	1/16W	R713	1-216-845-11	METAL CHIP	100K	5%	
R540	1-216-841-11		47K	5%	1/16W	R714	1-216-833-11	METAL CHIP	10K	5%	1/16W
R541	1-216-841-11		47K	5%	1/16W	R715	1-216-845-11	METAL CHIP	100K	5%	1/16W
R542	1-216-841-11		47K	5%	1/16W	R717	1-218-873-11		12K	0.50%	1/16W
R543	1-216-821-11	METAL CHIP	1K .	5%	1/16W	R718	1-218-873-11	RES,CHIP	12K	0.50%	1/16W
							1 010 001 11	METAL OLUD	•	EQ/	4 /4 CM/
R544	1-216-821-11		1K	5%	1/16W	R719	1-216-864-11		0	5%	1/16W
R545	1-216-821-11		1K	5%	1/16W	R720	1-218-871-11		10K	0.50%	1/16W
R546	1-216-791-11		3.3	5%	1/16W	R721	1-218-871-11		10K	0.50%	1/16W
R547	1-216-825-11		2.2K	5%	1/16W	R722	1-216-806-11		56	5%	1/16W
R548	1-216-821-11	METAL CHIP	1K	5%	1/16W	R723	1-216-806-11	RES,CHIP	56	5%	1/16W
								DE0 0111D		F0/	4 14 (0) 81
R549	1-216-821-11		1K	5%	1/16W	R724	1-216-806-11		56	5%	1/16W
R550	1-216-841-11		47K	5%	1/16W	R725	1-216-806-11		56	5%	1/16W
R551	1-216-821-11	METAL CHIP	1K	5%	1/16W	R726	1-216-845-11		100K	5%	1/16W
R553	1-216-797-11		10	5%	1/16W	R727	1-216-864-11		0	5%	1/16W
R554	1-216-797-11	METAL CHIP	10	5%	1/16W	R801	1-216-833-11	METAL CHIP	10K	5%	1/16W
R555	1-216-833-11	METAL CHIP	10K	5%	1/16W	R802	1-216-845-11		100K	5%	1/16W
R556	1-216-833-11	METAL CHIP	10K	5%	1/16W	R803	1-216-809-11	METAL CHIP	100	5%	1/16W
R557	1-216-833-11	METAL CHIP	10K	5%	1/16W	R813	1-216-837-11		22K	5%	1/16W
R558	1-216-821-11	METAL CHIP	1K	5%	1/16W	R814	1-216-142-00		4.7	5%	1/8W
R559	1-216-821-11	METAL CHIP	1K	5%	1/16W	R818	1-216-845-11	METAL CHIP	100K	5%	1/16W
R560	1-216-821-11	METAL CHIP	1K	5%	1/16W	R819	1-216-837-11		22K	5%	1/16W
R561	1-216-821-11	METAL CHIP	1K	5%	1/16W	R821	1-216-829-11		4.7K	5%	1/16W
R562	1-216-821-11	METAL CHIP	1K	5%	1/16W	R822	1-216-845-11		100K	5%	1/16W
R563	1-216-821-11	METAL CHIP	1K	5%	1/16W	R823	1-216-845-11		100K	5%	1/16W
R564	1-219-570-11	RES,CHIP	10M	5%	1/16W	R824	1-216-845-11	METAL CHIP	100K	5%	1/16W
R565	1-216-864-11	METAL CHIP	0	5%	1/16W	R826	1-216-864-11		0	5%	1/16W
R566	1-216-821-11	METAL CHIP	1K	5%	1/16W	R829	1-216-864-11		0	5%	1/16W
R567	1-216-821-11	METAL CHIP	1K	5%	1/16W	R830	1-216-833-11		10K	5%	1/16W
R568		METAL CHIP	1K	5%	1/16W	R831	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R569		METAL CHIP	1K	5%	1/16W	R832	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R570	1-216-841-11	METAL CHIP	47K	5%	1/16W	R833	1-216-833-11	METAL CHIP	10K	5%	1/16W
R571		METAL CHIP	47K	5%	1/16W	R834	1-216-833-11		10K	5%	1/16W
R572		METAL CHIP	100K	5%	1/16W	R835	1-216-829-11		4.7K	5%	1/16W
R573		METAL CHIP	1K	5%	1/16W	R836	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R574		METAL CHIP	10	5%	1/16W	R837	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R575	1-216-821-11	METAL CHIP	1K	5%	1/16W	R838	1-216-809-11		100	5%	1/16W
R576		METAL CHIP	10	5%	1/16W	R839	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R577		METAL CHIP	10	5%	1/16W	R840	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R578		METAL CHIP	1K	5%	1/16W	R841	1-216-809-11	METAL CHIP	100	5%	1/16W
R579		METAL CHIP	47K	5%	1/16W	R842	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
,											
R580	1-216-833-11	METAL CHIP	10K	5%	1/16W	R843	1-216-809-11		100	5%	1/16W
R581		METAL CHIP	47K	5%	1/16W	R844		METAL CHIP	10K	5%	1/16W
R582		METAL CHIP	47K	5%	1/16W	R845	1-216-809-11	METAL CHIP	100	5%	1/16W
R583		METAL CHIP	47K	5%	1/16W	R847	1-216-833-11	METAL CHIP	10K	5%	1/16W
R584		METAL CHIP	47K	5%	1/16W	R850	1-218-870-11	RES,CHIP	9.1K	0.50%	1/16W

## JC-19

Ref. No	. Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R85		METAL CHIP	100	5%	1/16W	R944	1-216-833-11	METAL CHIP	10K	5%	1/16W
R85			100 10K	5%	1/16W	R950	1-216-821-11		1K	5%	1/16W
			10K	5%	1/16W	R951	1-216-821-11		1K	5%	1/16W
R85						R952	1-216-821-11		1K	5%	1/16W
R85		· ·	9.1K	0.50%	1/16W				1K	5%	1/16W
R85	6 1-216-829-11	WEIAL CHIP	4.7K	5%	1/16W	R953	1-216-821-11	WE IAL CHIP	IN	370	1/1000
DOE:	7 1-216-809-11	METAL CHID	100	5%	1/16W	R954	1-216-821-11	METAL CHIP	1K	5%	1/16W
R85					1/16W	R955	1-216-821-11		1K	5%	1/16W
R85			4.3K	5%	1/16W	R956	1-216-821-11		1K	5%	1/16W
R85			100	5%		R957	1-216-842-11		56K	5%	1/16W
R86			4.3K	5% 5%	1/16W 1/16W	R958	1-216-845-11		100K	5%	1/16W
R86	1 1-216-829-11	WE TAL UNIP	4.7K	5%	1/1044	Lago	1-210-040-11	METAL OTHE	1001	J /6	1/1044
Doc	3 1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R959	1-216-833-11	METAL CHIP	10K	5%	1/16W
R86			4.7K	5%	1/16W	R960	1-216-841-11		47K	5%	1/16W
R86	-		100		1/16W	R962	1-216-821-11		1K	5%	1/16W
R86		METAL CHIP	4.7K	5% 5%	1/16W	R964	1-216-838-11		27K	5%	1/16W
R86					1/16W	R965	1-216-833-11		10K	5%	1/16W
R86	9 1-216-829-11	WETAL CHIP	4.7K	5%	17 10 44	L303	1-210-033-11	ME IAL CHIP	TOIL	3 /6	1/1000
D07/	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R966	1-216-833-11	METAL CHIP	10K	5%	1/16W
R87			4.7K	5%	1/16W	R967	1-216-833-11		10K	5%	1/16W
R87					1/16W	R968	1-216-841-11		47K	5%	1/16W
R87			4.7K	5% 5%		R969	1-216-841-11		47K	5%	1/16W
R87			4.7K	5%	1/16W	R970	1-216-833-11		10K	5%	1/16W
R87	5 1-218-839-11	RES,UTIP	470	0.50%	1/16W	טיפח	1-210-033-11	WE TAL GHIP	TUK	J /0	1/1044
D07	1 040 000 44	DEC CHID	470	0.50%	1/16W	R971	1-216-813-11	METAL CHID	220	5%	1/16W
R87			470	0.50%	1/16W	R972	1-216-841-11		47K	5%	1/16W
R87		•		0.50%	1/16W	R973	1-216-864-11		0	5%	1/16W
R87			470		1/16W	R974	1-216-838-11		27K	5%	1/16W
R879			0 330	5%	1/16W	R975	1-216-841-11		47K	5%	1/16W
R88	1-216-815-11	WETAL CHIP	330	5%	1/1044	La/3	1-210-041-11	WILLIAL GITT	4710	J /6	1/1000
D00-	1 1-216-815-11	METAL CHID	330	5%	1/16W	R976	1-216-845-11	METAL CHIP	100K	5%	1/16W
R88			4.7K	5%	1/16W	R978	1-216-813-11		220	5%	1/16W
R88						R980	1-216-841-11		47K	5%	1/16W
R88			4.7K	5%	1/16W 1/16W	R981	1-216-821-11		1K	5%	1/16W
R88			10K	5%					10K	5%	1/16W
- R88	8 1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R982	1-216-833-11	METAL CHIP	TUK	376	1/10//
DOO	1 116 020 11	METAL CUID	5.6K	5%	1/16W	R983	1-216-821-11	METAL CHIP	1K	5%	1/16W
R88			220K	5%	1/16W	R984	1-216-833-11		·10K	5%	1/16W
R89						R986	1-216-864-11		0	5%	1/16W
R89			20K	0.50%	1/10W	1				5%	1/16W
R89			10K	5%	1/16W	R987	1-216-864-11 1-216-864-11		0	5%	1/16W
R89	4 1-216-809-11	METAL CHIP	100	5%	1/16W	R988	1-210-004-11	WETAL UNIP	U	J /0	1/1000
DOO	1 046 000 44	METAL CHID	10K	5%	1/16W	R989	1-216-864-11	METAL CHID	0	5%	1/16W
R89		METAL CHIP			1/16W	R990	1-216-813-11		220	5%	1/16W
R89			100 20K	5% 0.50%		R991	1-216-813-11		220	5%	1/16W
R89					1/10W	R992	1-216-864-11		0	5%	1/16W
R89			0	5% 5%	1/16W 1/16W	RR001	1-216-864-11		0	5%	1/16W
R90	3 1-216-864-11	METAL CHIP	0 -	5%	1/1014	MUUUI	1-210-004-11	METAL CHIP	U	J /0	(DSR-40)
D00	4 . 4 046 000 44	METAL CUID	271/	E0/	1/16W						(D311-40)
R90			27K	5% 5%	1/16W	PPnna	1-216-864-11	METAL CHID	0	5%	1/16W
R90			1K	5%	1/16W	nnuuz	1-210-004-11	WIL TAL OTHE	U	3 /0	(DSR-40P)
R90			33K	0.50%							(DOITHOI)
R90			1K	5%	1/16W			< VARIABLE RES	ICTOD .		
R90	8 1-216-864-11	WEIAL CHIP	0	5%	1/16W			< VANIABLE NES	1010112		
D00	1 046 064 44	METAL CUID	n ·	E0/.	1/16W	RV001	1-238-855-11	RES, ADJ, CERM	FT 4 7Κ(Δ/I	CONV	REF REG1)
R90			0	5%		RV001		RES, ADJ, CERM			
R91:			1K	5%	1/16W			RES, ADJ, CERM			
R91			1K	5%	1/16W	RV010					
R91			0	5%	1/16W	RV011		RES, ADJ, CERM			
R92	0 1-218-871-11	RES,CHIP	10K	0.50%	1/16W	RV012	1-238-854-11	RES, ADJ, CERM	E1 2.2N(GB	GLAWII	ner neuj
D00	4 040 075 44	DEC CITIE	151/	0.509/	1/16///	DV/201	1_000.055_11	RES, ADJ, CERM	ET 1 7K		
R92			15K	0.50%	1/16W	RV201	1-230-000-11	NES, ADJ, CENIVI		וודמום	RE FRAME)
R92		•	150	5%	1/8W				(Art	FIUIU	HE LIMINE)
R92			6.8K	5%	1/16W			< VIBRATOR >			
R92			1M	5%	1/16W			< NUMATUR >			
R93	6 1-216-845-11	IVIE IAL CHIP	100K	5%	1/16W	V404	1 700 655 04	VIDDATOD ODVO	TAL /208/	12)	
		BACTAL OUT	4001	E0/	4/4/0144	X421		VIBRATOR, CRYS			
R93			100K	5%	1/16W	X422		VIBRATOR, CRYS	•	,	
R93			150K	5%	1/16W	X501		VIBRATOR, CERA			
R93			10K	5%	1/16W	X502		VIBRATOR, CRYS			
R94			0	5%	1/16W	X701	1-707-399-11	VIBRATOR, CRYS	IAL (24.5/	UIVITZ)	
R94	3 1-216-864-11	METAL CHIP	. 0	5%	1/16W	V700	1 700 407 01	VIDDATOD LITT	IIVA MICO V.	TE /6841	J-/
						X702	1-760-497-21	VIBRATOR, LITHI	OIM MIORY	ı⊏ (blVll	14)

		<u> </u>	:			<u>.</u>				
		JC-19	ME	D-63	MD-64	MD-65	POWE	RBL	OCK	(U-1)
Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
X801	1-767-779-21	VIBRATOR, CRYSTAL (49.	152MHz)				< CONNECTOR >			
					CN002	1-770-692-11	CONNECTOR, FF	C/FPC 9P		
		MD-63 BOARD, COMPLETI					< IC >		•	
		(F	Ref No. 8,0	000 Series)		0.740.000.44	IO DUOTO COU	D. FD TI DO	07.0 (0)	2411/01
		< CAPACITOR >			IC003 IC004 IC005	8-719-820-44	IC PHOTO COU IC PHOTO COU IC BA10358F-E	PLER TLP9		
C101 C102	1-126-206-11 1-163-031-11	ELECT CHIP 100uF CERAMIC CHIP 0.01uF	20%	6.3V 50V	10006		IC ELEMENT, H	ALL THS11	7-TE85L	
		< CONNECTOR >					< JUMPER RESI	STOR >		
CN101	1-770-646-11	CONNECTOR, FFC/FPC 16F	)		JR001 JR002	1-216-296-91 1-216-296-91		0		
		< DIODE >					< TRANSISTOR	>		
D101	8-719-989-52	DIODE GL4600S			Q001	8-729-012-46	PHOTO TRANSIS	STOR PT46	00FS	
		< IC >					< RESISTOR >			
IC101		IC PHOTO COUPLER TLP			R002	1-216-031-00	METAL CHIP	180	5%	1/10W
IC102		IC PHOTO COUPLER TLPS	907-0 (SC	NY2)	R003	1-216-069-00		6.8K	5%	1/10W
IC103 IC105		IC BA10358F-E2 IC ELEMENT, HALL THS1	17_TE051		R004 R005	1-216-081-00 1-216-069-00		22K 6.8K	5% 5%	1/10W 1/10W
10100	0-719-021-03	TO ELEWIENT, MALL THOT	I/-IEOUL		R003	1-216-081-00		22K	5%	1/10W
		< JUMPER RESISTOR >			R008	1-216-047-91	RES, CHIP	820	5%	1/10W
JR101 JR102	1-216-296-91 1-216-296-91						< VARIABLE RES	SISTOR >		
JR103	1-216-296-91									
JR104 JR105	1-216-296-91 1-216-296-91				RV001 RV002		RES, ADJ, CERM RES, ADJ, CERM			
		< TRANSISTOR >					< SWITCH >			
Q102	8-729-012-46	PHOTO TRANSISTOR PT46	600FS		S002	1-762-558-11	SWITCH, PUSH	(C DOWN)		
		< RESISTOR >								
R101	1-216-031-00	METAL CHIP 180	5%	1/10W			MD-65 BOARD,			
R102	1-216-081-00		5%	1/10W					ef No. 8.0	000 Series)
R103	1-216-069-00		5%	1/10W				(		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
R107	1-216-069-00		5%	1/10W			< CONNECTOR >			
R108	1-216-047-91	RES, CHIP 820	5%	1/10W	CN201	1-766-830-21	CONNECTOR, FF	C/FPC (ZIF)	11P	
R109	1-216-081-00	METAL CHIP 22K	5%	1/10W	CN202 CN203	1-774-771-11		C/FPC 14P		
		< VARIABLE RESISTOR >			CN204	1-750-620-11				
RV101 RV102		RES, ADJ, CERMET 47K RES, ADJ, CERMET 1M					< JUMPER RESIS	STOR >		
110102	1 200 002 11	< SWITCH >			JR201	1-216-296-91	SHORT	0		
0404	4 570 740 44				^	1 400 077 11	DOWED DI COSS	11.4) /505	40)	
\$101	1-5/2-/19-11	SWITCH, PUSH (1 KEY)			<u>A</u>	1-468-377-11 1-468-378-11	POWER BLOCK ( POWER BLOCK ( ************************************	U-1) (DSR-		
		MD-64 BOARD, COMPLETE					**********		.No. 30,0	000 Series)
		**************************************		000 Series)			< CAPACITOR >			

	The components identified by
	mark $\triangle$ or dotted line with
	mark ∆ are critical for safety.
	Replace only with part num-
1	har amanifical

1-104-705-11 FILM

1-104-706-11 FILM

1-104-705-11 FILM

20%

20%

250V (DSR-40)

250V

(DSR-40P) 250V

0.1uF

0.22uF

0.1uF

6.3V

50V

**△**C1

**△**C1

 $\triangle C2$ 

< CAPACITOR >

100uF

0.01uF

1-126-206-11 ELECT CHIP

1-163-031-11 CERAMIC CHIP

C001

C002

#### **POWER BLOCK (U-1)**

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description			<u>Remark</u>
<b>₾</b> .C3	1-115-383-11	CERAMIC	0.001uF	10%	125V (DSR-40)			< FUSE >			
<b>△</b> C3	1-127-786-11	CERAMIC	680PF	10%	250V	<b>▲F1</b>		FUSE (3.15A/1			
<b>∆</b> C4	1-115-383-11	CERAMIC	0.001uF	10%	(DSR-40P) 125V	<b> ▲F1</b>	9-882-875-01	FUSE (3.15A/2	50V) (DSR-4	0P)	
2504	1 110 000 11	CETTAVIO	0.00 141		(DSR-40)			< COIL >			
<b>∆</b> C4	1-127-786-11	CERAMIC	680PF	10%	250V	∆L1		INDUCTOR 6n			
<b>△</b> C5	1-115-383-11	CERAMIC	0.001uF	10%	(DSR-40P) 125V	<b>△L1</b> <b>△L2</b>		INDUCTOR 15			
					(DSR-40)	<b>△L2</b>		INDUCTOR 22			
<b>△</b> C5	1-127-786-11	CERAMIC	680PF	10%	250V (DSR-40P)			< TRANSISTOR	<b>3</b> >.		
<b>∆</b> C6	1-104-705-11	FILM	0.1uF	20%	250V	Q1	8_720_037_06	TRANSISTOR	25K2366 (F	SR-40)	
C7	1-115-383-11		0.001uF	10%	125V	Q1		TRANSISTOR			)
C8	1-115-383-11		0.001uF	10%	125V	Q3	8-729-281-53	TRANSISTOR	2SC1815-G	R	
<b> C</b> 9	9-880-364-01	ELECT	470uF		200V (DSR-40)			< RESISTOR >			
4.00	4 447 400 44	FLEOT	450	000/	400V	A D1	9-880-373-01		220K		1W
<b>∆</b> C9	1-117-188-11	ELEGI	150uF	20%	(DSR-40P)	<u></u>	9-880-373-01	WE TAL UNIDE		•	(DSR-40)
C10 C11	9-880-365-01 9-880-366-01		0.01uF 680PF (D	SR-40)	630V	<b>△R1</b>	9-880-427-01	METAL OXIDE	330K		1W (DSR-40P)
C11	9-880-424-01		330PF (D		)	R2	1-216-486-11	METAL OXIDE	82K		2W
C12	9-880-366-01	CERAMIC	680PF (D	SR-40)							(DSR-40)
C12	9-880-424-01	CERAMIC	330PF (D	SR-40P		R2	9-880-428-01	METAL OXIDE	270K		2W
C13	1-126-802-11		10uF	20%	50V	D2	4 040 005 44	CADDON	22	5%	(DSR-40P) 1/4W F
C14	1-126-802-11		10uF 2.2uF	20% 20%	50V 50V	R3 R4	1-212-865-11 1-247-879-11		100K	5%.	1/4W
C15	1-104-790-51	ELECT	Z.Zur	2070	301	R5		METAL OXIDE	47	5%	2W
C16	9-880-367-01	FILM	0.1uF			,,,,					
C17	9-880-368-01		470PF			R7	9-880-375-01	METAL OXIDE	18K		2W
C18	9-880-369-01	FILM	0.15uF								(DSR-40)
C19	9-880-370-01		0.033uF			R7	1-216-468-11	METAL OXIDE	82K		2W
C20	1-126-802-11	ELECT	10uF	20%	50V	D0	0 000 276 01	METAL OVIDE	0.22		(DSR-40P) 5W
C21	9-880-371-01	CERAMIC	0.001uF			R8	9-880-376-01	METAL OXIDE	0.22		(DSR-40)
C22	9-880-371-01		0.001uF								(5011 10)
C27	1-115-788-11		820uF	20%	25V	R8	9-880-429-01	METAL OXIDE	0.47		5W
C28	1-115-788-11		820uF	20%	25V						(DSR-40P)
C29	9-880-367-01	FILM	0.1uF			R9		METAL OXIDE	4.7	5%	2W
						R10	1-215-426-11		5.1K	1%	1/4W
C31 C32	9-880-367-01 9-880-367-01		0.1uF 0.1uF			R11	1-247-819-11	CARBON	330	5%	1/4W (DSR-40)
C32	1-115-788-11		820uF	20%	25V						(5011 40)
						R11	1-247-831-11	CARBON	1K	5%	1/4W
		< CONNECTOR	>			R12	1-215-389-11	METAL	47	1%	(DSR-40P) 1/4W
* CN1	1_580_220_21	PIN, CONNECTO	OR (FOR RO	ARD) 25	•	R13	1-215-385-11		33	1%	1/4W
* CN3		BOARD IN HAR		AIID) ZI		R14	1-247-857-11		12K	5%	1/4W
		< DIODE >				R18	1-247-847-11	CARRON	4.7K	5%	1/4W
		< DIODE >				R19	1-247-847-11		4.7K	5%	1/4W
<b> ∆</b> D1	8-719-500-58	DIODE D3SB	A60			R20	1-247-839-11		2.2K	5%	1/4W
D4	8-719-979-63		05 (DSR-40)			R21	1-247-831-11		1K	5%	1/4W
D4	8-719-053-19	DIODE UF40	07 (DSR-40F			R22	1-247-843-11	CARBON	3.3K	5%	1/4W
D5	8-719-110-72						4 0 4 7 7 7 7 7	0400011	00	F0/	4 / 414 2
D6	8-719-110-72	DIODE RD30	ESB2			R23	1-247-795-11		33 1.8K	5% 1%	1/4W 1/4W
Do	0 710 050 00	DIODE UF40	กรอ			R24 R25	1-215-427-11 1-215-427-11		1.8K 1.8K	1%	1/4VV 1/4W
D8 D9	8-719-053-20 8-719-109-85		USP IESB2			R26	1-215-427-11		3.3K	1%	1/4W
D9 D10	8-719-109-63				·	R27	1-247-831-11		1K	5%	1/4W
D11	8-719-109-97		BESB2								
						R28	9-880-375-01	METAL OXIDE	18K		2W
540	8-719-110-41	DIODE RD15	ESB2					METAL OXIDE	82K		(DSR-40)
D12	•	•				R28					2W

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

## POWER BLOCK (U-1) POWER BLOCK (U-2)

	•										
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R30	1-215-925-11		22K		3W	C33	9-880-406-01	ELECT	680uF	20%	10V
nou	1-213-323-11	WEIAL OXIDE	2211		OVV	C34	1-115-785-11		470uF	20%	25V
		< VARIABLE RES	CICTOD .			C36	9-880-407-01		2200PF	2076	234
		< VARIABLE RE	sisiun >			C37	9-880-407-01		2200PF	•	
DVA	0 000 077 01	DEC VAD CARE	ארו אני ואט	D 40)		637	9-000-407-01	CENAIVIIC	220011		
RV1		RES, VAR, CARE				000	4 404 504 44	FLEOT	COOLE	000/	16V
RV1	9-882-873-01	RES, VAR, CARE	SOM 1K (DS	K-40P)		C38	1-124-534-11		680uF	20%	
			_			C40	1-124-534-11		680uF	20%	16V
		< TRANSFORME	:R >			C41	9-880-339-01		0.047uF		
						C42	9-880-339-01		0.047uF		
<b>△</b> T1		TRANSFORMER				C43	9-880-339-01	FILM	0.047uF		
<b>△</b> T1	9-882-874-01	TRANSFORMER	, POWER (D	OSR-40P							
						C44	1-115-730-11	ELECT	180uF	20%	10V
		< THERMISTOR	> '			C45	1-115-754-11	ELECT	120uF	20%	16V
						C46	1-115-754-11	ELECT	120uF	20%	16V
TH1	9-880-384-01	THERMISTOR	$\Omega$ 8			C47	1-117-154-11	ELECT	33uF	20%	16V
						C48	9-880-652-01	ELECT	100uF	20%	10V
		< IC >									
						C49	9-880-652-01	ELECT	100uF	20%	10V
Z1	8-759-464-69	IC FA5317P				C50	1-117-154-11		33uF	20%	16V
<b>△Z2</b>		PHOTO COUPLE	R PS25611	1-1-V		C51		CERAMIC CHIP	4.7uF	10%	10V
<b>∆</b> Z3		PHOTO COUPLE				C52		CERAMIC CHIP	4.7uF	10%	10V
دن <b>دن</b>	0 1-10-024-00	THOTO OOUT LE	1020011	_		C53		CERAMIC CHIP	4.7uF	10%	10V
						000	1 110-000-31	OLI INIVIIO UTITI	Ter UI	10 /0	100
						C54	1-115-566-01	CERAMIC CHIP	4.7uF	10%	10V
						C55	1-115-566-91		4.7uF	10%	16V
A	1 400 077 44	DOWED BLOOK	(II 0) /DOD	40)					4.7uF	10%	10V
<u> </u>		POWER BLOCK				C56		CERAMIC CHIP			
$\Phi$	1-468-378-11			-4UP)		C57		CERAMIC CHIP	4.7uF	10%	10V
		******				C58	1-115-566-91	CERAMIC CHIP	4.7uF	10%	10V
			(Ref	f.No. 40,0	000 Series)						
						C59	1-115-566-91		4.7uF	10%	10V
		< CAPACITOR >				C60	1-115-566-91		4.7uF	10%	10V
			•			C61	1-115-566-91	CERAMIC CHIP	4.7uF	10%	10V
C1	1-115-781-11	ELECT	820uF	20%	25V	C62	1-115-566-91	CERAMIC CHIP	4.7uF	10%	10V
C2	1-115-781-11	ELECT	820uF	20%	25V	C63	1-115-566-91	CERAMIC CHIP	4.7uF	10%	10V
C3	9-880-339-01	FILM	0.047uF								
C4	1-115-781-11	ELECT	820uF	20%	25V	C64	1-115-566-91	CERAMIC CHIP	4.7uF	10%	10V
C5	1-115-787-11	ELECT	820uF	20%	25V	C65	1-115-566-91	CERAMIC CHIP	4.7uF	10%	10V
						C66	1-107-682-91		1uF	10%	16V
C7	9-880-407-01	CERAMIC	2200PF			C67		CERAMIC CHIP	1uF	10%	16V
C8	9-880-407-01		2200PF			C68		CERAMIC CHIP	1uF	10%	16V
C9	1-115-737-11		1000uF	20%	10V		1 101 002 01	02.00000		.070	
C10	1-115-737-11		1000uF	20%	10V	C69	1-107-682-01	CERAMIC CHIP	1úF	10%	16V
C11	9-880-402-01		0.01uF	2070	100	C70	9-882-863-01		0.1uF	1070	100
011	3-000-402-01	LILIVI	0.0101			C71	9-882-863-01		0.1uF		
040	0.000.400.04	FLEOT	C00E	000/	101	6/1	9-002-003-01	FILIVI	U. Tur		
C12	9-880-406-01		680uF	20%	10V			COMMENTOR			
C13	9-880-406-01		680uF	20%	10V			< CONNECTOR >			
C14	9-880-339-01		0.047uF								
C15	9-880-339-01		0.047uF			* CN1		PIN, CONNECTOR			
C16	9-880-339-01	FILM	0.047uF			* CN10	1-564-018-11				
						* CN11	1-564-019-11	PIN, CONNECTOR	9P		
C17	9-880-339-01	FILM	0.047uF			* CN12	1-564-021-11	PIN, CONNECTOR	11P		
C18	1-115-730-11		180uF	20%	10V	* CN13	1-564-012-11				
C19	1-115-730-11		180uF	20%	10V						
C20	1-115-730-11		180uF	20%	10V			< DIODE >		1	
C21	1-115-754-11		120uF	20%	16V						
021	1 110-104-11	LLLUI	12001	2070	100	D1	8-719-109-89	DIODE RD5.6E	SR2		
000	0.000.000.04	EII M	0.04705			1			JUL		
C22	9-880-339-01		0.047uF			D2	8-719-500-70		4		
C23	9-880-339-01		0.047uF			D3	8-719-107-94				
C24	9-880-339-01		0.047uF			D4	8-719-107-94				
C25	9-880-339-01		0.047uF	_		D5	8-719-107-94	DIODE 1SS202	-1		
C26	1-115-785-11	ELECT	470uF	20%	25V						
020						D7	8-719-018-83	DIODE D2S4M			
020	9-880-339-01	FILM	0.047uF			D8	8-719-500-70	DIODE D5S4M			
C27	3-000-333-01	OFDAMIO	2200PF								
C27	9-880-407-01	CERAIVIIC				1		0011			
C27 C28			2200PF			1		< UUIL >			
C27 C28 C29	9-880-407-01 9-880-407-01	CERAMIC	2200PF	20%	10V			< COIL >			
C27 C28 C29 C30	9-880-407-01 9-880-407-01 9-880-406-01	CERAMIC ELECT	2200PF 680uF	20%	10V	11	1-459-407-11				
C27 C28 C29	9-880-407-01 9-880-407-01	CERAMIC ELECT	2200PF	20% 20%	10V 10V	L1		INDUCTOR 30uH			·
C27 C28 C29 C30	9-880-407-01 9-880-407-01 9-880-406-01	CERAMIC ELECT ELECT	2200PF 680uF			L1 L2 L3	9-882-865-01			`. · .	·

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

# POWER BLOCK (U-2) RE-33

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
L4	9-882-867-01	INDUCTOR 15u	ıH			Z6	8-759-098-24	IC PQ30RV11			
L5	9-880-412-01					Z7	8-759-098-24	IC PQ30RV11			
						Z8	8-759-790-61		-LB03		
L6	9-880-412-01					Z9	8-759-355-26				
L7		INDUCTOR 15u			•	Z10	8-759-392-17	IC uPC7908AHF			
L8		INDUCTOR 450									
L9		INDUCTOR 15				Z11		IC LM2990T-12			
L10	9-882-870-01	INDUCTOR 130	)uH			Z12	8-759-089-53	IC uPC79M05HF			
144	0.000.074.04	INDUCTOR									
L11	9-882-871-01	INDUCTOR					·				
		< TRANSISTOR				*	A-7079-775-A	RE-33 BOARD, C	OMDI ETE		•
		CINAMOIOTON	,				M-1013-113-A	**********			
Q1	8-729-201-53	TRANSISTOR 2	2SA1015						(Re	ef.No. 6.0	000 Series)
Q2		TRANSISTOR 2							, , , ,	,	,
Q4	8-729-203-76	TRANSISTOR 2	2SC3328					< CAPACITOR >			
		•									
		< RESISTOR >				C002	1-163-275-11		0.001uF	5%	50V
						C003	1-126-400-11		22uF	20%	35V
R1	1-215-445-11		10K	1%	1/4W	C004		CERAMIC CHIP	0.001uF	5%	50V
R2	1-215-427-11		1.8K	1%	1/4W	C006	1-126-400-11		22uF	20%	35V
R3	1-215-423-11		1.2K	1%	1/4W	C008	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
R4		METAL OXIDE	560	5%	1W						
R5	1-215-857-11	METAL OXIDE	. 10	5%	1W	C009	1-126-205-11		47uF	20%	6.3V
	4 045 440 44	BATTAL	0.01/	40/	4 / 414 /	C010	1-163-809-11		0.047uF	10%	25V
R6	1-215-443-11		8.2K	1%	1/4W	C011	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
R7	1-215-416-11 1-215-429-11		620 2.2K	1% 1%	1/4W 1/4W	C012 C014		CERAMIC CHIP	0.001uF 0.001uF	5% 5%	50V 50V
R8 R9	1-247-835-11		1.5K	5%	1/4W	6014	1-103-275-11	CERAMIC CHIP	0.0014F	370	307
R10	1-215-443-11		8.2K	1%	1/4W	C020	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
1110	1-213-440-11	MILIAL	0.21	1 70	17-4-44	0020	1-104-004-11	OLNAWIO GIII	o. rui	10 /6	200
R11	1-215-413-11	METAL	470	1%	1/4W			< CONNECTOR >			
R12	1-215-429-11		2.2K	1%	1/4W						
R13	1-215-439-11		5.6K	1%	1/4W	CN001	1-774-043-11	CONNECTOR, FP	C (DIP TYP	E)26P	
R14	1-215-422-11		1.1K	1%	1/4W	CN002		PIN, CONNECTOR		,	
R15	1-215-429-11	METAL	2.2K	1%	1/4W	* CN003	1-564-005-11	PIN, CONNECTOR	R 6P		
R16	1-215-451-11		18K	1%	1/4W			< DIODE >			
R17	1-215-421-11		1K	1%	1/4W						
R18	1-215-429-11		2.2K	1%	1/4W	D001		DIODE RD13M-			
R19	1-247-831-11		1K	5%	1/4W	D002		DIODE RD13M-			
R20	1-247-845-11	CARBON	3.9K	5%	1/4W	D003		DIODE RD13M-			
D04	1 047 004 11	OADDON	F.C.	E0/	4 / 4141	D004		DIODE RD13M-			
R21	1-247-801-11 1-247-801-11		56 56	5%	1/4W 1/4W	D005	8-719-421-59	DIODE MA3075	WA-(TX)		
R22 R23	1-247-801-11		56 56	5% 5%	1/4W 1/4W	D006	9-710-421-50	DIODE MA3075	MA_(TV)		
R24	1-247-801-11		56	5%	1/4W	D000		DIODE MA3075			
R25	1-247-831-11		1K	5%	1/4W	D008		DIODE RD13M-1			
1120	1247 001 11	ONIDON	110	0 70	1/ 4 4 4	D009		DIODE MA3075			
R26	1-247-847-11	CARBON	4.7K	5%	1/4W	D010		DIODE RD13M-1			
R29	1-247-855-11		10K	5%	1/4W						
R30	1-215-857-11		10	5%	1W	D011	8-719-106-80	DIODE RD13M-1	Г1В2		
R31	1-215-387-11		39	1%	1/4W	D012	8-719-106-80	DIODE RD13M-1	T1B2		
R32	1-215-408-11		300	1%	1/4W	D013		DIODE MA3075\			
						D014	8-719-421-59	DIODE MA3075\	NA-(TX)		
R33	1-215-405-11		220	1%	1/4W	D015	8-719-421-59	DIODE MA3075\	NA-(TX)		
R34	1-215-857-11	METAL OXIDE	10	5%	1W						
R35	1-215-431-11	METAL	2.7K	1%	1/4W	D016		DIODE MA3075V			
R36	1-215-449-11		15K	1%	1/4W	D017		DIODE MA3075V			
R37	1-215-445-11	METAL	10K	1%	1/4W	D018		DIODE MA3075V			
			:			D019		DIODE RD13M-1			
R38	1-247-841-11		2.7K	5%	1/4W	D020	8-719-106-80	DIODE RD13M-T	1B2		
R39	1-247-831-11		1K	5%	1/4W	D001	0.740.400.00	DIODE BRASS	-4 D.C		
R40	9-882-864-01	WEIAL	22	5%	1W F	D021		DIODE RD13M-T			
		.10.				D022		DIODE RD13M-T			
		< 10 >				D023		DIODE RD13M-T			
Z1	8-759-293-98	IC DUSUDVISA				D024 D025		DIODE RD13M-T DIODE RD13M-T			
Z1 Z2		IC LM2576T-AD	1			0020	0-119-100-00	- אוסור שחופותו	IDA		
Z2 Z3	9-880-398-01					D026	8-719-106-80	DIODE RD13M-T	1R2		
Z4	8-759-098-24					2020	3 7 13 100-00	UD_			
Z5	9-880-397-01										

RP-228

											J L	
В	of No	Dort No	Description			Remark	Ref. No.	Part No.	Description			Remark
	lef. No.	Part No.	Description		,	Memaik						-
			< FERRITE BEAD	>			C773	1-113-619-11	CERAMIC CHIP	0.47uF		10V
	ED004	4 500 044 00	EEDDITE	01111			0774	1 104 200 11	CEDAMIC CUID	0.1uF		16V
	FB001	1-500-241-22		OUH			C774	1-164-360-11 1-162-970-11			10%	25V
	FB002	1-500-241-22		OUH			C775			0.01uF 47PF	5%	50V
	FB003	1-500-241-22		OUH			C776	1-162-923-11				50V 50V
	FB004	1-500-241-22		OUH			C777	1-162-923-11		47PF	5%	50V 50V
	FB005	1-500-241-22	FERRITE	0UH			. C778	1-162-974-11	CERAMIC CHIP	0.01uF		SUV
	FDOOG	1 500 041 00	FEDRITE	OHIL			C779	1-162-974-11	CERAMIC CHIP	0.01uF		50V
	FB006	1-500-241-22		OUH OUH			C780	1-162-974-11		0.01uF		50V
	FB007	1-500-241-22		OUH			C780	1-162-974-11		0.01uF		50V
	FB008	1-500-241-22					C782	1-164-156-11		0.01uF		25V
	FB009	1-500-241-22		OUH OUH			C783		TANTALUM CHIP		20%	4V
	FB010	1-500-241-22	FERRITE	UUII			0703	1-133-201-11	TANTALOW OTT	Toul	2070	70
			< IC >				C784	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
			(10)				C786	1-162-974-11		0.01uF		50V
	IC001	8-759-745-64	IC NJM4560M-7	TF2			C788		TANTAL. CHIP	10uF	20%	10V
	10001	0 700 7 10 0 1	10 1101111000111				C789	1-162-974-11		0.01uF		50V
			< JACK >				C791		CERAMIC CHIP	0.01uF		50V
			( 0/10/17									
	J001	1-537-861-11	TERMINAL BOAR	ID			C792	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
				/S VIDEO 0	UTPUT/N	MONITOR)	C793	1-107-826-91		0.1uF	10%	.16V
a)c	J002	1-764-066-11	•				C794	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
*	J003	1-764-066-11	CONNECTOR, BN				C795	1-128-004-11		10uF	20%	16V
				F.VIDEO IN		OUTPUT)	C796	1-162-974-11	CERAMIC CHIP	0.01uF		50V
	J004	1-785-572-11	CONNECTOR, BN	C (B-Y OUT	PUT)							
							C797	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
			< RESISTOR >				C798	1-162-974-11		0.01uF		50V
							C799	1-164-217-11		150PF	5%	50V
	R001	1-208-838-91		220K		1/10W	C803	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
	R002	1-208-838-91	•	220K	0.50%	1/10W	C811	1-113-619-11	CERAMIC CHIP	0.47uF		10V
	R004	1-208-774-11		470	0.50%							
	R005	1-208-774-11		470	0.50%	1/10W	C813	1-162-974-11	CERAMIC CHIP	0.01uF		50V
	R006	1-208-755-11	RES,CHIP	75	0.50%	1/10W	C814	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
							C815	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
	R007	1-208-755-11		75	0.50%	1/10W	C816	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
	R008	1-208-755-11		75	0.50%	1/10W	C817	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
	R028	1-208-818-11	•	33K	0.50%				000 4440 01110		400/	501/
	R029	1-208-818-11		33K	0.50%	1/10W	C818	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
	R030	1-208-755-11	RES,CHIP	75	0.50%	1/10W	C819	1-162-974-11		0.01uF		50V
	D. 0. T. 0		DEC CLUD	001/	0.500/	4 (4 0) 11	C821	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	R050	1-208-818-11	•	33K		1/10W	C822	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	R051	1-208-818-11	RES,CHIP	33K	0.50%	1/10W	C823	1-164-360-11	CERAMIC CHIP	0.1uF		16V
								1 160 070 11	CERAMIC CHIP	0.01uF	100/	25V
		A 7007 100 A	חם ממח מסגמים	COMIDLETE	(DCD 40		C824	1-162-970-11			10% 5%	50V
. ×			RP-228 BOARD,				C825	1-164-315-11		470PF 0.01uF	J 70	50V 50V
ą:		A-7007-128-A	RP-228 BOARD, (			15.)	C826 C827	1-162-974-11	CERAMIC CHIP	0.01uF		50V
			* 10-10-10-11-12-12-12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-			On Series	C827		CERAMIC CHIP	0.01uF		50V 50V
				(ne	1.100. 7,0	00 Series)	0020	1-102-3/4-11	OLIMANIO OTIF	U.UTUF		00 <b>V</b>
							C829	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
		1-776-140-11	CABLE, FLEXIBLE	FI AT 30P			C830		CERAMIC CHIP	0.1uF	2070	16V
			CABLE, FLEXIBLE		-245)		C831		TANTAL. CHIP	10uF	20%	6.3V
		1 700 070 11	ONDEL, I LEMBEL	. 1 . 1 (110	2.10)		C832		CERAMIC CHIP	0.1uF	2070	16V
			< CAPACITOR >				C833		CERAMIC CHIP	0.01uF		50V
			( 0/11/10/10/1/									•••
	C146	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C834	1-162-974-11	CERAMIC CHIP	0.01uF		50V
	C148		CERAMIC CHIP	0.01uF	. 5 ,5	50V	C835		CERAMIC CHIP	0.01uF		50V
	C701		CERAMIC CHIP	0.0082uF	10%	25V	C836		CERAMIC CHIP	0.01uF		50V
	C702		CERAMIC CHIP	0.0033uF		50V	C837		CERAMIC CHIP	0.01uF	10%	25V
	C703		CERAMIC CHIP	0.0082uF		25V	C838		CERAMIC CHIP	8PF	0.5PF	50V
	••											11.
	C704	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C839	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
	C705		CERAMIC CHIP	0.0039uF		50V	C841		CERAMIC CHIP	47PF	5%	50V
	C706		CERAMIC CHIP	0.0039uF		50V	C842		CERAMIC CHIP	0.1uF		16V
	C761		CERAMIC CHIP	0.1uF		16V	C843	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
	C762		CERAMIC CHIP	0.1uF		16V	C844		CERAMIC CHIP	0.033uF	10%	16V
	C763	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C845		CERAMIC CHIP	1000PF	5%	50V
	C770	1-135-201-11	TANTALUM CHIP		20%	4V	C847		CERAMIC CHIP	0.01uF		50V
	C771		CERAMIC CHIP	0.01uF		50V	C848	1-104-851-11		10uF	20%	10V
	C772	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C850	1-162-974-11	CERAMIC CHIP	0:01uF		50V

#### RP-228

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description			Remark
C853	1-162-974-11	CERAMIC CHIP	0.01uF		50V	Q774		TRANSISTOR			
•••						Q775		TRANSISTOR			
C854	1-104-851-11	TANTAL. CHIP	10uF	20%	10V	Q776	8-729-037-52				
C855		TANTAL. CHIP	10uF	20%	10V	Q777	8-729-037-52	TRANSISTOR	2SD2216J-0	גR(TX).	S0
C857		CERAMIC CHIP	100PF	5%	50V						
C859	1-162-974-11	CERAMIC CHIP	0.01uF		50V	Q778		TRANSISTOR			
C861	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	Q779	8-729-037-52	TRANSISTOR	2SD2216J-0	JR(TX).	SO .
						Q784	8-729-037-53	TRANSISTOR	2SB1462J-0	۱R(TX).۱	S0
C862		CERAMIC CHIP	0.01uF	10%	25V			DEGLATOR			
C874		CERAMIC CHIP	0.01uF		50V			< RESISTOR >			
C875	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V	D117	1 010 007 11	MACTAL OLUD	68	5%	1/16W
		COMMENTAR				R117 R118	1-216-807-11 1-216-833-11		10K	5%	1/16W
		< CONNECTOR >				R120	1-216-864-11		0	5%	1/16W
0014.04	1 750 045 11	CONNECTOR, FF	C/EDC /71E	30P		R121	1-216-825-11		2.2K	5%	1/16W
CN101 CN102		CONNECTOR, FF				R122	1-216-825-11		2.2K	5%	1/16W
CN102	,					11111					
CN771		CONNECTOR, FF				R123	1-216-864-11	METAL CHIP	0	5%	1/16W
CN775		CONNECTOR, BO			)	,					(DSR-40)
0						R124	1-216-864-11	METAL CHIP	0	5%	1/16W
		< DIODE >									(DSR-40P)
D771	8-719-404-50	DIODE MA111-	TX			R137	1-216-807-11		68	5%	1/16W
D772		DIODE MA111-				R138	1-216-833-11		10K	5%	1/16W
D773		DIODE KV1470				R143	1-216-833-11		10K	5%	1/16W
D774		DIODE 1SS351-				R144	1-216-831-11		6.8K 0	5% 5%	1/16W 1/16W
D775	8-719-052-27	DIODE 1SS351-	-1B			R147	1-216-864-11	WE TAL CHIP	U	376	171044
D-704	0.740.404.50	DIODE MANA	TV			R206	1-216-821-11	METAL CHIP	1K	5%	1/16W
D791	8-719-404-50	DIODE MA111-	IV			R308	1-216-821-11		1K	5%	1/16W
		< FILTER >			• .	R309	1-216-821-11		1K	5%	1/16W
		( I)LILIN >				R310	1-216-821-11		1K	5%	1/16W
FL770	1-411-051-21	DELAY LINE, LC	(23NS)			R311	1-216-821-11		1K	5%	1/16W
FL771		FILTER, LOW PA									
						R312	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< IC >				R313	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R314	1-216-821-11		1K	5%	1/16W
10770						R315	1-216-864-11		. 0	5%	1/16W
IC771		IC MB88346LP		ER		R316	1-216-833-11	METAL CHIP	10K	5%	1/16W
IC772		IC CXD2302Q-1							0.014	En/	4 /4 (34)
IC773	8-752-070-12					R701	1-216-825-11		2.2K 4.7K	5% 5%	1/16W 1/16W
10774	8-752-386-38	IC CXD3105R-T	16			R702	1-216-829-11 1-216-809-11		4.7K 100	5%	1/16W
. 10775	0.750.074.50	IO OVAGGGGD T	~ <i>A</i>			R703 R704	1-216-810-11		120	5%	1/16W
IC775		IC CXA2023R-T				R705	1-216-825-11		2.2K	5%	1/16W
IC777 IC791	8-752-073-50 8-759-426-83					11703	1-210 020 11	WEIAE OIL			,,,,,,,,,
10/91	0-739-420-03	10 1K11220DW	OL			R706	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
		< COIL >				R707	1-216-809-11		100	5%	1/16W
		10,012				R708	1-216-810-11	METAL CHIP	120	5%	1/16W
L105	1-414-398-11	INDUCTOR	10uH			R770	1-216-845-11	METAL CHIP	100K	5%	1/16W
L770	1-414-398-11	INDUCTOR	10uH			R772	1-216-296-91	SHORT	0		
L773	1-414-398-11	INDUCTOR	10uH								
L774	1-414-398-11	INDUCTOR	10uH			R774	1-216-841-11		47K	5%	1/16W
L776	1-414-398-11	INDUCTOR	10uH			R776	1-216-818-11		560	5%	1/16W
						R779	1-216-847-11		150K	5%	1/16W
L779		INDUCTOR CHIP				R780	1-216-837-11		22K	5%	1/16W
L781	1-412-963-11		100uH			R782	1-216-833-11	WE TAL CHIP	10K	5%	1/16W
L782	1-412-963-11		100uH			D700	1 016 000 11	METAL CUID	10K	5%	1/16W
L783	1-414-398-11		10uH			R783	1-216-833-11 1-216-817-11		470	5%	1/16W
L784	1-414-398-11	INDUCTOR	10uH			R786 R787	1-210-017-11		240	5%	1/16W
1700	1_/14 / 200 11	INDUCTOR	10uH			R788	1-202-924-11		240	5%	1/16W
L789	1-414-398-11	עטוטטעאוו	TUUIT			R789	1-216-824-11		1.8K	5%	1/16W
		< TRANSISTOR :	>								
				<u> </u>	,	R790	1-216-841-11		47K	5%	1/16W
Q105	8-729-037-52	TRANSISTOR 2	SD2216J-	QR(TX).S	0 .	R791	1-216-815-11	METAL CHIP	330	5%	1/16W
Q109		TRANSISTOR 2				R792	1-216-814-11		270	5%	1/16W
Q701	8-729-013-04	TRANSISTOR 2	SC4851-TI	L		R793	1-216-827-11		3.3K	5%	1/16W
Q702	8-729-013-04	TRANSISTOR 2	SC4851-TI	L		R794	1-216-816-11	METAL CHIP	390	5%	1/16W
Q772	8-729-037-72	TRANSISTOR L	JN9211J-(7	TX).S0					400	E6/	4 44 0144
				-		R796	1-216-809-11		100	5%	1/16W
Q773	8-729-141-48	TRANSISTOR 2	SB624-T1	BV4		R797	1-216-827-11	WETAL CHIP	3.3K	5%	1/16W

В	lef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		1-216-815-11		220	E0/	1/16W			< FERRITE BE	AD >		
	R798 R799	1-216-815-11		330 2.2K	5% 5%	1/16W			< rennile de	4D >		
	R800	1-216-833-11		10K	5%	1/16W	FB001	1-500-241-22	FERRITE	OUH		
	11000	1 210 000 11	WEITE OIII	TOIL	070	1, 1011	FB002	1-500-241-22		OUH		
	R801	1-216-833-11	METAL CHIP	10K	5%	1/16W	FB003	1-500-241-22		OUH		
	R802	1-216-841-11		47K	.5%	1/16W	FB004	1-500-241-22	FERRITE	OUH		
	R804	1-216-839-11	METAL CHIP	33K	5%	1/16W	FB005	1-500-241-22	FERRITE	OUH		
	R806	1-216-821-11		1K	5%	1/16W						
	R808	1-216-821-11	METAL CHIP	1K	5%	1/16W	FB006	1-500-241-22	FERRITE	OUH		
	R810	1-216-837-11	METAL CHIP	22K	5%	1/16W			< 10 >			
	R812	1-216-837-11	METAL CHIP	22K	5%	1/16W						
	R814	1-216-853-11		470K	5%	1/16W	IC001	8-759-583-67			050	
	R815	1-216-853-11		470K	5%	1/16W	10002		IC TC7WU04			
	R818	1-216-837-11	METAL CHIP	22K	5%	1/16W	10003	8-759-289-43	IC LTC490CS	8-E2		
	R819	1-216-839-11	METAL CHIP	33K	5%	1/16W			< COIL >			
	R820	1-216-803-11		33	5%	1/16W						
	R822	1-216-834-11		12K	5%	1/16W	L001	1-412-029-11	INDUCTOR CH	IP 10uH		
	R824	1-216-821-11	METAL CHIP	1K	5%	1/16W						
	R825	1-216-841-11	METAL CHIP	47K	5%	1/16W			< RESISTOR >			
	R826	1-216-839-11	METAL CHIP	33K	5%	1/16W	R001	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
	R827	1-216-821-11	· ·	1K	5%	1/16W	R002	1-216-801-11	METAL CHIP	22	5%	1/16W
	R830	1-216-831-11		6.8K	5%	1/16W	R003	1-216-815-11	METAL CHIP	330	5%	1/16W
	R832	1-216-807-11		68	5%	1/16W	R004	1-216-815-11	METAL CHIP	330	5%	1/16W
	R843	1-216-822-11	METAL CHIP	1.2K	5%	1/16W	R005	1-216-815-11	METAL CHIP	330	5%	1/16W
	D044	1 040 007 44	METAL OLUD	001/	<b>50</b> /	4 /4 014/	DOOG	1 010 000 11	METAL OLUB	4 51/	F0/	4/40\\
	R844	1-216-837-11		22K	5%	1/16W 1/16W	R006 R007	1-216-823-11 1-216-857-11	METAL CHIP	1.5K 1M	5% 5%	1/16W 1/16W
	R849	1-218-837-11		390 330		1/16W	R007	1-216-801-11	METAL CHIP	22	5%	1/16W
	R850	1-218-835-11		330	0.50% 0.50%	1/16W	R009	1-216-801-11	METAL CHIP	22	5%	1/16W
	R851 R852	1-218-835-11 1-218-837-11		390	0.50%	1/16W	R010	1-216-833-11		10K	5%	1/16W
	11002	1-210-037-11	NEO,OTH	030	0.50 /6	171044	1010	1-210-055-11	WEIAL OITH	IUN	0 70	(DSR-40)
							1					(5011 10)
	R858	1-216-816-11	METAL CHIP	390	5%	1/16W	DOTA	4 040 004 44	METAL CLUD	0	E0/	
=	R858	1-216-816-11	METAL CHIP	390	5%	1/16W	R011	1-216-864-11	METAL CHIP	0	5%	1/16W
*						, , , , , , , , , , , , , , , , , , , ,				_		1/16W (DSR-40P)
* *		A-7073-778-A	RS-80 BOARD, O	OMPLETE	(DSR-40)		R012	1-216-801-11	METAL CHIP	22	5%	1/16W (DSR-40P) 1/16W
		A-7073-778-A		OMPLETE OMPLETE	(DSR-40) (DSR-40F			1-216-801-11 1-216-857-11		_		1/16W (DSR-40P)
		A-7073-778-A	RS-80 BOARD, C	COMPLETE	(DSR-40) (DSR-40F	")	R012 R013	1-216-801-11 1-216-857-11	METAL CHIP METAL CHIP	22 1M	5% 5%	1/16W (DSR-40P) 1/16W 1/16W
		A-7073-778-A	RS-80 BOARD, C RS-80 BOARD, C ***********	COMPLETE	(DSR-40) (DSR-40F	")	R012 R013	1-216-801-11 1-216-857-11	METAL CHIP METAL CHIP METAL CHIP	22 1M	5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W
		A-7073-778-A	RS-80 BOARD, C	COMPLETE	(DSR-40) (DSR-40F	")	R012 R013 R014	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	22 1M 5.6K	5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W
		A-7073-778-A A-7073-781-A	RS-80 BOARD, C RS-80 BOARD, C ************************************	COMPLETE COMPLETE ***********************************	(DSR-40) (DSR-40F	on Series)	R012 R013 R014	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	22 1M 5.6K 10K	5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W
	C001	A-7073-778-A A-7073-781-A 1-113-619-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE (F	(DSR-40) (DSR-40F * Ref.No. 3,0	9) 00 Series) 10V	R012 R013 R014 R015 R016	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP	22 1M 5.6K 10K 10K	5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE (F 0.47uF 220PF	(DSR-40) (DSR-40F	00 Series) 10V 50V	R012 R013 R014 R015 R016	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP	22 1M 5.6K 10K 10K	5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE ******** (F 0.47uF 220PF 0.47uF	(DSR-40) (DSR-40F * Ref.No. 3,0	10V 50V 10V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP < VIBRATOR >	22 1M 5.6K 10K 10K 0	5% 5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE ******** (F 0.47uF 220PF 0.47uF 22uF	(DSR-40) (DSR-40F * Ref.No. 3,0	10V 50V 10V 6.3V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP < VIBRATOR >	22 1M 5.6K 10K 10K 0	5% 5% 5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE ******** (F 0.47uF 220PF 0.47uF	(DSR-40) (DSR-40F * Ref.No. 3,0	10V 50V 10V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP < VIBRATOR >	22 1M 5.6K 10K 10K 0	5% 5% 5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE ******** (F 0.47uF 220PF 0.47uF 22uF	(DSR-40) (DSR-40F * Ref.No. 3,0	10V 50V 10V 6.3V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL CHIP < VIBRATOR > VIBRATOR, CE OSCILLATOR,	22 1M 5.6K 10K 10K 0 RAMIC (8M	5% 5% 5% 5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE ********* (F 0.47uF 220PF 0.47uF 22uF 0.1uF 0.1uF	(DSR-40) (DSR-40F * Ref.No. 3,0	10V 50V 10V 6.3V 16V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP VIBRATOR > VIBRATOR, CE OSCILLATOR, VA-106 BOARE	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6	5% 5% 5% 5% 5% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007 C008	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 220PF 0.47uF 22uF 0.1uF 0.1uF	5% 5% 5%	10V 50V 10V 6.3V 16V 50V 50V 50V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE VA-106 BOARE	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6	5% 5% 5% 5% 5% 5% 5% 614kHz) E (DSR-E (DSR-E)	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE ********* (F 0.47uF 220PF 0.47uF 22uF 0.1uF 0.1uF	(DSR-40) (DSR-40F * Ref.No. 3,0 5%	10V 50V 10V 6.3V 16V 16V 50V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP VIBRATOR > VIBRATOR, CE OSCILLATOR, VA-106 BOARE	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6	5% 5% 5% 5% 5% 5% 614kHz) E (DSR-	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007 C008	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 122uF	5% 5% 5%	10V 50V 10V 6.3V 16V 50V 50V 50V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE VA-106 BOARE	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6	5% 5% 5% 5% 5% 5% 614kHz) E (DSR-	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007 C008	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11	RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 122uF	5% 5% 5%	10V 50V 10V 6.3V 16V 50V 50V 50V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE VA-106 BOARE ************************************	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0), COMPLET 0, COMPLET ************************************	5% 5% 5% 5% 5% 5% 614kHz) E (DSR-	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007 C008 C009	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-124-778-00	RS-80 BOARD, C RS-80 BOARD, C ************************************	OMPLETE COMPLETE ********* (F 0.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 122uF	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE VA-106 BOARE	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0), COMPLET 0, COMPLET ************************************	5% 5% 5% 5% 5% 5% 614kHz) E (DSR-	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007 C008 C009	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-124-778-00	RS-80 BOARD, C RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 122uF	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 COMPLET 0, COMPLET 0, COMPLET (Re	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- E (DSR- ef.No. 10	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40) 40P)
	C001 C002 C003 C004 C005 C006 C007 C008 C009	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-124-778-00	RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 122uF	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE VA-107 BOARE VA-107 BOARE VA-108 BOARE VA-108 BOARE VA-108 BOARE VA-109 BOARE VA-109 BOARE VA-106 BOARE VA-107 BOARE VA-107 BOARE VA-107 BOARE VA-108 BO	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0), COMPLET 0, COMPLET (Rowner)	5% 5% 5% 5% 5% 5% 614kHz) E (DSR-	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007 C008 C009	A-7073-778-A A-7073-781-A 1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-124-778-00	RS-80 BOARD, C RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 122uF	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE VA-107 BOARE VA-107 BOARE VA-108 BOARE VA-108 BOARE VA-108 BOARE VA-109 BOARE VA-109 BOARE VA-106 BOARE VA-107 BOARE VA-107 BOARE VA-107 BOARE VA-108 BO	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0), COMPLET 0, COMPLET (Rowner)	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- ef.No. 10	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40) 40P)
	C001 C002 C003 C004 C005 C006 C007 C008 C009	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-124-778-00  1-770-693-11 1-573-005-21	RS-80 BOARD, C RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 22uF	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A	METAL CHIP VIBRATOR, CE OSCILLATOR, VA-106 BOARE VA-107 BOARE VA-107 BOARE VA-108 BOARE VA-108 BOARE VA-108 BOARE VA-109 BOARE VA-109 BOARE VA-106 BOARE VA-107 BOARE VA-107 BOARE VA-107 BOARE VA-108 BO	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 COMPLET 0, COMPLET 0, COMPLET (Ref.)  22uF 100PF	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- ef.No. 10	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
	C001 C002 C003 C004 C005 C006 C007 C008 C009	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-1770-693-11 1-573-005-21	RS-80 BOARD, C RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 22uF	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A	METAL CHIP VIBRATOR, CE OSCILLATOR,  VA-106 BOARE VA-106 BOARE VA-106 BOARE ************************************	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 COMPLET 0, COMPLET 0, COMPLET (Ref.)  22uF 100PF	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- ef.No. 10	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40P) 0,000 Series)
	C001 C002 C003 C004 C005 C006 C007 C008 C009 CN001 CN002	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-124-778-00  1-770-693-11 1-573-005-21	RS-80 BOARD, C RS-80 BOARD, C RS-80 BOARD, C ************************************	O.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 22uF C/FPC 10P SUB 9P (R	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002 *	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A	METAL CHIP  < VIBRATOR, CE OSCILLATOR,  VA-106 BOARE ***************  < CAPACITOR: ELECT CHIP CERAMIC CHIF CERAMIC CHIF	22 1M 5.6K 10K 10K 0  RAMIC (8M CERAMIC (6  ), COMPLET 0, COMPLET 10, COMPLET	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- ef.No. 10 20% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40P) 0,000 Series) 6.3V 50V (DSR-40P)
	C001 C002 C003 C004 C005 C006 C007 C008 C009 CN001 CN002	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-162-927-11 1-1573-005-21  8-719-062-19 8-719-062-19 8-719-062-19	RS-80 BOARD, CRS-80 BOARD, CRAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CONNECTOR, CONNECTOR, D-CONNECTOR, D-	O.47uF 220PF 0.47uF 22uF 0.1uF 0.1uF 100PF 100PF 22uF C/FPC 10P SUB 9P (R	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A	METAL CHIP  < VIBRATOR, CE OSCILLATOR,  VA-106 BOARE ***************  < CAPACITOR: ELECT CHIP CERAMIC CHIF CERAMIC CHIF	22 1M 5.6K 10K 10K 0  RAMIC (8M CERAMIC (6  ), COMPLET 0, COMPLET 10, COMPLET	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- ef.No. 10	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40P) 0,000 Series) 6.3V 50V (DSR-40) 50V (DSR-40P)
	C001 C002 C003 C004 C005 C006 C007 C008 C009 CN001 CN002	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-162-927-11 1-1573-005-21  8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19	RS-80 BOARD, CRS-80 BOARD, CRAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CONNECTOR, CONNECTOR, D-CONNECTOR, D-	O.47uF 220PF 0.47uF 22uF 0.1uF 0.1uF 100PF 100PF 22uF  C/FPC 10P SUB 9P (R	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002 * *	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A 1-124-778-00 1-162-927-11 1-162-926-11	METAL CHIP	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0, COMPLET ************************************	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- E (DSR- ef.No. 10 20% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40P) 0,000 Series) 6.3V 50V (DSR-40) 50V (DSR-40P)
	C001 C002 C003 C004 C005 C006 C007 C008 C009 CN001 CN002	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-162-927-11 1-1573-005-21  8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19	RS-80 BOARD, CRS-80 BOARD, CRAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CONNECTOR, CONNECTOR, D-CONNECTOR, D-	O.47uF 220PF 0.47uF 22uF 0.1uF 0.1uF 100PF 100PF 22uF  C/FPC 10P SUB 9P (R	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002 *	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A	METAL CHIP	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0, COMPLET ************************************	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- ef.No. 10 20% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40P) 0,000 Series) 6.3V 50V (DSR-40) 50V (DSR-40P)
	C001 C002 C003 C004 C005 C006 C007 C008 C009 CN001 CN002 D001 D002 D003 D004 D005	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-162-927-11 1-1770-693-11 1-573-005-21  8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19	RS-80 BOARD, CRS-80 BOARD, CRAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CONNECTOR, CONNECTOR, D-CONNECTOR, D-	O.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 22uF  C/FPC 10P SUB 9P (R WA-TX WA-TX WA-TX WA-TX WA-TX WA-TX	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002 * *	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A 1-124-778-00 1-162-927-11 1-162-926-11	METAL CHIP	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0, COMPLET ************************************	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- E (DSR- ef.No. 10 20% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40P) 0,000 Series) 6.3V 50V (DSR-40) 50V (DSR-40P)
	C001 C002 C003 C004 C005 C006 C007 C008 C009 CN001 CN002	A-7073-778-A A-7073-781-A  1-113-619-11 1-162-957-11 1-113-619-11 1-124-778-00 1-164-360-11 1-162-927-11 1-162-927-11 1-162-927-11 1-124-778-00  1-770-693-11 1-573-005-21  8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19 8-719-062-19	RS-80 BOARD, CRS-80 BOARD, CHIP CERAMIC CHIP CONNECTOR, CONNECTOR, D-30 CONN	O.47uF 220PF 0.47uF 22uF 0.1uF 100PF 100PF 22uF  C/FPC 10P SUB 9P (R WA-TX WA-TX WA-TX WA-TX WA-TX WA-TX	5% 20%	10V 50V 10V 6.3V 16V 50V 50V 50V 6.3V	R012 R013 R014 R015 R016 R018 X001 X002 * *	1-216-801-11 1-216-857-11 1-216-830-11 1-216-833-11 1-216-833-11 1-216-864-11 1-579-125-11 1-567-870-11 A-7067-206-A A-7067-208-A 1-124-778-00 1-162-927-11 1-162-928-11 1-162-928-11	METAL CHIP	22 1M 5.6K 10K 10K 0 RAMIC (8M CERAMIC (6 0, COMPLET ************************************	5% 5% 5% 5% 5% 5% 614kHz) E (DSR- E (DSR- * ef.No. 10 20% 5% 5%	1/16W (DSR-40P) 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 40P) 40P) 40P) 40P) 0,000 Series) 6.3V 50V (DSR-40) 50V (DSR-40P) 50V (DSR-40P)

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	Description			Remark
C004	1-162-926-11	CERAMIC CHIP	82PF	5%	50V	C226	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
					(DSR-40P)	C227	1-162-915-11	CERAMIC CHIP	10PF	0.5P	
C005	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C229	1-164-360-11				16V
C005	1_162_018_11	CERAMIC CHIP	18PF	5%	(DSR-40) 50V	C230	1-162-970-11			10%	
0000	1-102-310-11	CENAMIC CITIF	IOFF	376	(DSR-40P)	C231	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
					(5011 401)	C232	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C006	1-164-816-11	CERAMIC CHIP	220PF	2%	50V	C233		CERAMIC CHIP	0.1uF		16V
					(DSR-40)	C234		CERAMIC CHIP	0.1uF		16V
C006	1-164-218-11	CERAMIC CHIP	180PF	0.25	PF 50V	C235		CERAMIC CHIP	0.1uF		16V
C007	1-164-156-11	CERAMIC CHIP	0.1uF		(DSR-40P) 25V	C237	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
	1 104 100 11	OLITAWIO OTIII	0.141		231	C238	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C008	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C239		ELECT CHIP	22uF	20%	6.3V
C009	1-164-156-11				25V	C240	1-128-004-11		10uF	20%	16V
C010	1-124-778-00		22uF	20%	6.3V	C241	1-164-360-11		0.1uF		16V
C011 C012	1-124-778-00	ELECT CHIP	22uF 22uF	20% 20%	6.3V 6.3V	C242	1-164-360-11	CERAMIC CHIP	0.1uF		16V
0012	1-124-770-00	LLEGI CHIP	22ur	2070	0.37	C243	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C013	1-164-156-11	CERAMIC CHIP	0.1 <b>u</b> F		25V	C244	1-164-360-11		0.1uF		16V
C014	1-164-670-11		1200PF	5%	16V	C245		CERAMIC CHIP	0.1uF		16V
					(DSR-40)	C246		CERAMIC CHIP	0.1uF		16V
C014	1-164-218-11	CERAMIC CHIP	180PF	0.25F	PF 50V	C247	1-128-004-11	ELECT CHIP	10uF	20%	16V
					(DSR-40P)	00.40	1 100 000 11	EL FOT OLUB	005	000/	41.7
C101	1-128-004-11	ELECT CHIP	10uF	20%	16V	C248 C249	1-128-003-11 1-164-360-11		22uF 0.1uF	20%	4V 16V
C102	1-164-360-11		0.1uF	2070	16V	C250	1-164-360-11		0.1uF		16V
C103	1-164-360-11		0.1uF		16V	C251		CERAMIC CHIP	0.1uF		16V
C104	1-164-360-11		0.1uF		16V	C252	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C105	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
C106	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C253 C254	1-164-360-11		0.1uF		16V
C107	1-164-360-11		0.1uF		16V	C254	1-164-360-11 1-162-974-11	CERAMIC CHIP	0.1uF 0.01uF		16V 50V
C108	1-164-360-11		0.1uF		16V	C256	1-164-360-11	CERAMIC CHIP	0.1 uF		16V
C109	1-164-360-11		0.1uF		16V	C257	1-162-964-11		0.001uF	10%	50V
C201	1-124-778-00	ELECT CHIP	22uF	20%	6.3V						
C202	1-124-778-00	ELECT CHIP	00	000/	0.01/	C258	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C202	1-126-205-11		22uF 47uF	20% 20%	6.3V 6.3V	C259 C260	1-164-360-11 1-162-970-11		0.1uF	100/	16V
C204	1-128-003-11		22uF	20%	4V	C261	1-102-970-11	ELECT CHIP	0.01uF 4.7uF	10% 20%	25V 25V
C205	1-162-970-11		0.01uF	10%	25V	C262	1-164-360-11		0.1uF	2070	16V
C206	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
0007	1 101 070 11	OFDALMO OUID				C263	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	
C207	1-164-3/8-11	CERAMIC CHIP	30PF	5%	50V	C263	1 100 010 11	OFDAMMO OLUD	CDC	0.055	(DSR-40)
C207	1-162-920-11	CERAMIC CHIP	27PF	5%	(DSR-40) 50V	6263	1-162-910-11	CERAMIC CHIP	5PF	U.25P	F 50V (DSR-40P)
				0 / 0	(DSR-40P)	C264	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C208	1-164-360-11	CERAMIC CHIP	0.1uF		16V						,
						C265	1-164-360-11		0.1uF		16V
C209	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C266	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C210 C211	1-164-360-11 1-162-958-11	CERAMIC CHIP	0.1uF 270PF	5%	16V 50V	C267 C268	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C212	1-126-205-11		47uF	20%	6.3V	C269	1-162-970-11 1-162-970-11	CERAMIC CHIP	0.01uF 0.01uF	10% 10%	25V 25V
C213		CERAMIC CHIP	47PF	5%	50V	0203	1-102-370-11	OLITAINIO CITIF	0.0101	10 /0	237
						C270	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C214	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	C271	1-128-003-11	ELECT CHIP	22uF	20%	4V
0014	1 100 010 11	OFDANAIO OLUD	4005	F0/	(DSR-40)	C272	1-164-378-11	CERAMIC CHIP	30PF	5%	50V
C214	1-102-910-11	CERAMIC CHIP	12PF	5%	50V (DSR-40P)	C272	1 160 000 11	CEDAMIC CIUD	0700	E0/	(DSR-40)
C215	1-124-778-00	FLECT CHIP	22uF	20%	6.3V	6212	1-162-920-11	CERAMIC CHIP	27PF	5%	50V (DSR-40P)
			2241	2070	0.07						(0011-401)
C216	1-124-778-00		22uF	20%	6.3V	C273	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C217	1-128-003-11		22uF	20%	4V	C274	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C218 C219		CERAMIC CHIP	0.1uF	000/	16V	0074	4 400 040 44	OFDALLO COUT	1000		(DSR-40)
C220	1-128-003-11		22uF	20%	4V	C274	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
0220	1-162-970-11	CLIMINIO OFIF	0.01uF	10%	25V						(DSR-40P)
C221	1-128-003-11	ELECT CHIP	22uF	20%	4V	C275	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C222	1-164-360-11		0.1uF		16V	C276		CERAMIC CHIP	0.1uF		16V
C223	1-164-360-11		0.1uF		16V	C277		CERAMIC CHIP	0.1uF		16V
C224	1-162-970-11		0.01uF	10%	25V	C278		CERAMIC CHIP	22PF	5%	50V
C225	1-162-970-11	OCKAIVIIC CHIP	0.01uF	10%	25V	C279	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

											-	
В	ef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
	C281	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C339	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
	C282	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C340	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
	C283	1-115-156-11	CERAMIC CHIP	1uF		10V	C341	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
	C284		CERAMIC CHIP	0.1uF		16V						
	C286	1-113-619-11	CERAMIC CHIP	0.47uF		10V	C343	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
							C344	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
	C287		CERAMIC CHIP	0.1uF		16V	C345	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
	C288	1-124-778-00		22uF	20%	6.3V	C401	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	C289		CERAMIC CHIP	0.01uF	10%	25V	C402	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	C290		CERAMIC CHIP	0.1uF	000/	16V	0400	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	C291	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C403 C404	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	C292	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C404	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	C292	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C406	1-126-205-11		47uF	20%	6.3V
	C294	1-128-006-11	ELECT CHIP	4.7uF	20%	25V	C407		CERAMIC CHIP	33PF	5%	50V
	C295	1-126-206-11		100uF	20%	6.3V						
	C296		CERAMIC CHIP	0.047uF	10%	16V	C408	1-117-720-11	CERAMIC CHIP	4.7uF		10V
							C409	1-164-360-11	CERAMIC CHIP	0.1uF	*	16V
	C297	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C410	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C298	1-128-006-11	ELECT CHIP	4.7uF	20%	25V	C412	1-117-720-11		4.7uF		10V
	C299		CERAMIC CHIP	0.1uF		16V	C414	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	C300		CERAMIC CHIP	6PF	0.5PF	50V	2440	1 100 005 11	EL FOT OUR	47F	000/	0.01
	C301	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C416	1-126-205-11	ELECT CHIP	47uF	20%	6.3V 16V
						(DSR-40)	C417	1-164-360-11 1-117-720-11	CERAMIC CHIP	0.1uF 4.7uF		10V 10V
	0004	1 104 700 11	CEDAMIC CHID	560PF	5%	50V	C418 C419	1-164-360-11		0.1uF		16V
	C301	1-104-739-11	CERAMIC CHIP	30077	3 76	(DSR-40P)	C420		CERAMIC CHIP	0.1uF		16V
	C302	1-164-360-11	CERAMIC CHIP	0.1uF		16V	0.720	1 101 000 11	or o	01141		
	C303	1-162-915-11	CERAMIC CHIP	10PF	0.5PF		C421	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C304	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C422	1-164-360-11		0.1uF		16V
							C423	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C424	1-117-720-11		4.7uF		10V
	C306	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C425	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C307	1-128-003-11	ELECT CHIP	22uF	20%	4V						1617
	C308	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	C426	1-113-619-11		0.47uF		10V
	C309	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C427	1-113-619-11		0.47uF		10V
	0010	1 100 001 11	OFDAMIO OUID	7100.0	4.00/	FOV	C428 C429	1-113-619-11 1-164-360-11		0.47uF 0.1uF		10V 16V
	C310	1-162-964-11 1-164-360-11	CERAMIC CHIP	0.001uF 0.1uF	10%	50V 16V	C429	1-164-360-11		0.1uF		16V
	C311 C312	1-164-360-11	CERAMIC CHIP	0.1uF		16V	0400	1-10-1-300-11	OLITAWIO OTIII	0.1 th		104
	C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C431	1-117-720-11	CERAMIC CHIP	4.7uF		10V
	0010	1 102 004 11	OLI II III II O	0.0014.		(DSR-40P)	C432		CERAMIC CHIP	0.1uF		16V
							C433	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C314	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	C434	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C315	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	C435	1-117-720-11	CERAMIC CHIP	4.7uF		10V
	C316		ELECT CHIP	22uF	20%	4V						
	C317		CERAMIC CHIP	0.1uF		16V	C436	1-162-921-11		33PF	5%	50V
	C318	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C437	1-164-360-11		0.1uF		16V
						(DSR-40P)	C438	1-117-720-11		4.7uF		10V
	0040	4 400 007 44	OFDARAIO OLUD	400DE	E0/	E0\/	C439	1-164-360-11 1-164-360-11		0.1uF 0.1uF		16V 16V
	C319	1-102-927-11	CERAMIC CHIP	100PF	5%	50V (DSR-40P)	C440	1-104-500-11	OLIMBIO UNIF	O.Tul		100
	C320	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C441	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C321	1-124-778-00		22uF	20%	6.3V	C442	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C322	1-124-778-00		22uF	20%	6.3V	C443	1-164-360-11		0.1uF		16V
	0022	, ,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					C444	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	C323	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	C445	1-117-720-11	CERAMIC CHIP	4.7uF		10V
	C324	1-124-778-00	ELECT CHIP	22uF	20%	6.3V						
	C325	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C446		CERAMIC CHIP	0.1 uF		16V
	C326		CERAMIC CHIP	0.01uF	10%	25V	C447			0.1uF		16V
	C327	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C448		CERAMIC CHIP	0.1uF		16V
						(DSR-40P)	C449	1-164-156-11	CERAMIC CHIP	0.1uF		25V
	0220	1.160.070.11	CEDAMIC CUID	0.0105	10%	25V						(DSR-40P)
	C328 C329	1-162-970-11 1-162-970-11	CERAMIC CHIP	0.01uF 0.01uF	10%	25V	C450	1-117-720-11	CERAMIC CHIP	4.7uF		10V
	C329	1-102-970-11	ELECT CHIP	10uF	20%	16V	C450			0.1uF		16V
	5500	. 1 150 007 11	LLCOT OTH	·	_0 /0	(DSR-40P)	C452		CERAMIC CHIP	0.1uF		16V
	C331	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C453		CERAMIC CHIP	4.7uF		10V
						(DSR-40P)	C454		CERAMIC CHIP	0.1uF		16V
	C332	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C455		CERAMIC CHIP	0.1uF		16V
	C338	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C456	1-164-360-11	CERAMIC CHIP	0.1uF		16V
								•				

Ref.	No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C4	457	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C517	1-128-003-11	ELECT CHIP	22uF	20%	4V
	158	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C518	1-164-156-11	CERAMIC CHIP	0.1uF		25V
	459	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C519		CERAMIC CHIP	0.1uF		25V
04	100	1-104-300-11	CENAMIO CITI	0.141		100	C520		CERAMIC CHIP	0.1uF		25V
0.4	160	1-117-720-11	CERAMIC CHIP	4.7uF		10V	0020	1 104 100 11	OLI WIND OTHE	·		20.
	160			0.1uF		25V	C521	1-16/-156-11	CERAMIC CHIP	0.1uF		25V
	161	1-164-156-11	CERAMIC CHIP								20%	6.3V
	162	1-164-156-11	CERAMIC CHIP	0.1uF	0001	25V	C522	1-126-205-11		47uF		
	163	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C523	1-126-205-11		47uF	20%	6.3V
C4	164	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C524	1-126-205-11		47uF	20%	6.3V
							C525	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C4	465	1-117-720-11	CERAMIC CHIP	4.7uF		10V						
C4	466	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C526	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	167	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C527	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	468	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C528	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	169	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C529	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
0-	100	1 104 000 11	OLI II IIIII O OIIII	. Ollar			C530	1-126-205-11		47uF	20%	6.3V
0	170	1-164-360-11	CERAMIC CHIP	0.1uF		16V	0000	. 120 200				
				0.1uF		16V	C531	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	471	1-164-360-11	CERAMIC CHIP					1-126-205-11		47uF	20%	6.3V
	172	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C532				2070	
	473	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C533		CERAMIC CHIP	0.1uF		16V
C4	174	1-128-007-11	ELECT CHIP	2.2uF	20%	35V	C534		CERAMIC CHIP	0.1uF		16V
							C535	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C4	175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C4	176	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C536	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	477	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C537	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	178	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C538	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	179	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C539	1-164-360-11	CERAMIC CHIP	0.1uF		16V
0.1			02			(DSR-40P)	C540		CERAMIC CHIP	0.1uF		16V
						(2011 101)	55.5					
0.4	100	1 117 700 11	CERAMIC CHIP	4.7uF		10V	C541	1-164-360-11	CERAMIC CHIP	0.1uF		16V
	180			22uF	20%	6.3V	C542	1-164-360-11		0.1uF		16V
	181	1-124-778-00								0.1uF		16V
	182	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C543	1-164-360-11				16V
	483	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C544		CERAMIC CHIP	0.1uF		
<b>C</b> 4	184	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C545	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C4	485	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C601	1-124-778-00		22uF	20%	6.3V
C4	486	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C602	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
	487	1-124-779-00	ELECT CHIP	10uF	20%	16V	C603	1-128-004-11	ELECT CHIP	10uF	20%	16V
	488	1-115-156-11	CERAMIC CHIP	1uF		10V	C604	1-115-156-11	CERAMIC CHIP	1uF		10V
	489		CERAMIC CHIP	0.1uF		16V	C606	1-128-004-11	ELECT CHIP	10uF	20%	16V
	100											
C/	490	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C608	1-128-004-11	ELECT CHIP	10uF	20%	16V
	491		CERAMIC CHIP	0.056uF	10%	25V	C612		CERAMIC CHIP	27PF	5%	50V
			CERAMIC CHIP	0.1uF	1070	25V	00.2	1 102 020 11	02/1/11/11/0 0////			(DSR-40)
	492	1-124-779-00		10uF	20%	16V	C612	1-162-021-11	CERAMIC CHIP	33PF	5%	50V
	193				5%	50V	0012	1-102-321 11	OLI I/MINIO OTTI	001-1	070	(DSR-40P)
64	494	1-163-139-00	CERAMIC CHIP	820PF	376	300						(DOIT 401)
_			E. EOT 0.110		000/	0.017	0040	1 100 015 11	CERAMIC CHIP	10PF	O EDE	50V
	495	1-124-778-00		22uF	20%	6.3V	C613				0.5PF	
	496		CERAMIC CHIP	0.1uF		25V	C614		CERAMIC CHIP	10PF	0.5PF	50V
C4	497		CERAMIC CHIP	0.022uF	10%	25V	C615	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
	498	1-124-779-00		10uF	20%	16V						(DSR-40)
	199		CERAMIC CHIP	0.1uF		25V	C616	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
						,						
CF	501	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	C618	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
	502		CERAMIC CHIP	0.1uF		16V	C619	1-124-778-00		22uF	20%	6.3V
	503		CERAMIC CHIP	0.1uF		25V	C621		CERAMIC CHIP	0.01uF	10%	25V
				0.01uF	10%	25V	C624		CERAMIC CHIP	0.1uF		16V
	504		CERAMIC CHIP	47uF	20%	6.3V	C628		CERAMIC CHIP	0.1uF		16V
G	505	1-126-205-11	ELECT CHIP	4/UF	2070	0.37	0020	1-104-300-11	CENAIMIC OIM	U. Tui		100
			OFD 41 110	0.004 =	4001	FOV.	0000	4 400 057 44	CEDAMIO OUID	22005	E0/	50\/
	506		CERAMIC CHIP	0.001uF	10%	50V	C629		CERAMIC CHIP	220PF	5%	50V
CE	507	1-162-908-11		3PF	0.5PF		C630	1-128-004-11		10uF	20%	16V
	508	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C631		CERAMIC CHIP	0.1uF		16V
	509		CERAMIC CHIP	39PF	5%	50V	C651	1-128-003-11	ELECT CHIP	22uF	20%	4V
	510		CERAMIC CHIP	0.1uF		16V	C652		CERAMIC CHIP	100PF	5%	50V
C.	511	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C653	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
	512	1-164-360-11		0.1uF		16V	C654		CERAMIC CHIP	120PF	5%	50V
			CERAMIC CHIP	33PF	5%	50V	C655		CERAMIC CHIP	100PF	5%	50V
	513						C656	1-126-205-11		47uF	20%	6.3V
	514		CERAMIC CHIP	22PF	5%	50V	\$			0.01uF	10%	25V
CS	515	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C657	1-102-9/0-11	CERAMIC CHIP	0.01น	10 /0	201
_			EL EAT AL!!	40.5	0004	4017	0050	4 404 000 44	CEDAMIO OLUB	ή 4E		161/
C5	516	1-128-004-11	ELECT CHIP	10uF	20%	16V	C658	1-104-360-11	CERAMIC CHIP	0.1uF		16V

C659   1-162-970-11   CERAMIC CHIP   0.01uF   10%   25V   C891   1-164-360-11   CERAMIC CHIP   0.1uF   10660   1-128-007-11   ELECT CHIP   2.2uF   20%   35V   C891   1-164-360-11   CERAMIC CHIP   0.1uF   10662   1-162-908-11   CERAMIC CHIP   3PF   0.5PF   50V   C893   1-128-004-11   ELECT CHIP   0.1uF   100662   1-162-908-11   CERAMIC CHIP   3PF   0.5PF   50V   C893   1-164-360-11   CERAMIC CHIP   0.1uF   106664   1-162-919-11   CERAMIC CHIP   0.2uF   5%   50V   C895   1-126-392-11   ELECT CHIP   100uF   20%   60665   1-162-970-11   CERAMIC CHIP   0.01uF   10%   25V   C895   1-126-392-11   ELECT CHIP   100uF   20%   60667   1-162-970-11   CERAMIC CHIP   0.01uF   10%   25V   C898   1-163-392-11   ELECT CHIP   100uF   20%   60667   1-162-970-11   CERAMIC CHIP   0.01uF   10%   25V   C899   1-126-392-11   ELECT CHIP   100uF   20%   60670   1-164-343-11   CERAMIC CHIP   0.01uF   10%   25V   C899   1-126-392-11   ELECT CHIP   100uF   20%   60671   1-162-910-11   CERAMIC CHIP   0.01uF   10%   25V   C899   1-126-396-11   ELECT CHIP   100uF   20%   60671   1-162-910-11   CERAMIC CHIP   0.02uF   10%   25V   C900   1-126-396-11   ELECT CHIP   47uF   20%   60673   1-164-360-11   CERAMIC CHIP   0.02uF   10%   25V   C903   1-164-360-11   CERAMIC CHIP   0.1uF   6075   1-162-970-11   ELECT CHIP   0.01uF   0.02uF   0.02uF   0.02uF   0.000F   0.00													
CASE   1-129-09-11   CERAMIC CHIP   0.1 uF   10 w   20 w	D	of No	Part No.	Description			Remark	Ref No	Part No	Description			Remark
	П										0.4.5		
CREAD   1-128-209-11   ELECT CHIP   OUF   20%   6.39			, , , ,										16V
C682												000/	16V
C683												20%	16V
CB65		C662	1-162-908-11	CERAMIC CHIP	3PF	0.5PF	50V	C893	1-164-360-11	CERAMIC CHIP	0.1uF		16V
CREAD   1-162-997-11   CERAMIC CHIP   20PF   5%   50V   CREAD   1-162-997-11   CERAMIC CHIP   0.01uF   10%   20%   CREAD   C		C663	1-162-922-11	CERAMIC CHIP	39PF	5%	50V	C894	1-164-360-11	CERAMIC CHIP	0.1uF		16V
CREAD   1-162-970-11   CERAMIC CHIP   0.01uf   10%   25V   CREAD   1-162-970-11   CERAMIC CHIP   0.01uf   10%   25V   CREAD   1-162-930-11   CERAMIC CHIP   0.01uf   0.07uf   10%   20%   CREAD   1-162-930-11   CERAMIC CHIP   0.01uf   0.02uf   1-162-930-11   ELECT CHIP   1.00uf   20%   CREAD   1-162-930-11   ELECT CHIP   20%   CREAD   1-162-930-11   ELECT CHIP   20%   CREAD							50V	C895			100uF	20%	6.3V
C669									1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C686											0.1uF		16V
C670											100uF	20%	6.3V
C670				050 1110 0110	0005	<b>F</b> 0/	501/	0000	4 400 000 44	ELECT CLUD	100	000/	6.31/
C672   1-162-919-11   CERAMIC CHIP   20PF   5% 50V   C673   1-164-326-11   CERAMIC CHIP   C0-20PF   5% 50V   C692   1-164-326-11   CERAMIC CHIP   C0-20PF   C676   1-128-003-11   ELECT CHIP   20PF   20PF   C676   1-128-003-11   ELECT CHIP   20PF   C676   1-128-003-11   ELECT CHIP   0.1uF   10PV   C680   1-17-720-11   CERAMIC CHIP   0.1uF   10PV   C681   1-128-209-11   ELECT CHIP   0.1uF   10PV   C682   1-164-380-11   ELECT CHIP   0.1uF   10PV   C682   1-164-380-11   ELECT CHIP   0.1uF   10PV   C685   1-128-209-11   ELECT CHIP   0.1uF   10PV   C686													6.3V 16V
C672													16V
1-164-292-11   CERAMIC CHIP   0.022   10%   25V   C903   1-164-380-11   CERAMIC CHIP   0.1												2070	16V
C674   1-128-003-11   ELECT CHIP   C20F   20%   4V   C306   1-164-380-11   CERAMIC CHIP   0.1 uF   C676   1-132-003-11   ELECT CHIP   20F   20%   4V   C307   1-164-380-11   CERAMIC CHIP   0.1 uF   C677   1-117-720-11   CERAMIC CHIP   0.1 uF   C678   1-164-380-11   CERAMIC CHIP   0.1 uF   C679   1-164-380-11   CERAMIC CHIP   0.1 uF   C680   1-164-380-11   CERAMIC CHIP   0.1 uF   C780   C782   1-164-380-11   CERAMIC CHIP   0.1 uF   C780   C782   1-164-380-11   CERAMIC CHIP   0.1 uF   C780													16V
C875   1-162-970-11   CERAMIC CHIP   0.10   0.10   10   0.10		00/3	1-104-221-11	CENAIVIIG CHIP	U.UZZUF	1070	201	0903	1-104-300-11	CENAIMIC CITIF	0.101		
C876   1-128-003-11   ELECT CHIP   220F   209F   40		C674	1-128-003-11	ELECT CHIP	22uF			1					16V
C679		C675	1-162-970-11	CERAMIC CHIP		10%							16V
C678		C676	1-128-003-11	ELECT CHIP	22uF	20%		1					16V
1-64-360-11   CERAMIC CHIP   0.1 uF   16V   C1126   1-107-826-91   CERAMIC CHIP   0.1 uF   10%   C821   1-126-206-11   ELECT CHIP   10 uF   10%   C821   1-126-206-11   ELECT CHIP   30 uF   20%   6.3 V   C821   1-146-360-11   CERAMIC CHIP   0.1 uF   10%   C821   1-126-393-11   ELECT CHIP   30 uF   20%   C821   1-146-360-11   CERAMIC CHIP   0.1 uF   16V   C851   1-126-393-11   CERAMIC CHIP   0.1 uF   16V   C851   1-126-393-11   CERAMIC CHIP   0.1 uF   16V   C851   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C852   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C854   1-164-360-11   CERAMIC CHIP   0.0 uF   16V   C855   1-162-964-11   CERAMIC CHIP   0.0 uF   10%   50V   C856   1-162-964-11   CERAMIC CHIP   0.0 uF   10%   50V   C856   1-162-964-11   CERAMIC CHIP   0.0 uF   16V   C859   1-164-360-11   CERAMIC CHIP   0.0 uF   16V   C859   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C859   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C860   1-126-131-11   ELECT CHIP   1 uF   20%   50V   C861   1-126-131-11   ELECT CHIP   1 uF   20%   50V   C862   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C863   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C863   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C865   1-126-201-11   CERAMIC CHIP   0.1 uF   16V   C865   1-126-201-11   CERAMIC CHIP   0.1 uF   16V   C865   1-126-360-11   CERAMIC CHIP   0.1 uF   16V   C866   1-164-360-11   CERAMIC CHIP   0.1 uF   16V   C876   1-126-201-11   CERAMIC CHIP   0.1 uF   16V   C876   1-126-201-11   CERAMIC CHIP   0.1 uF   16V   C876   1								4					16V
C880		C678	1-164-360-11	CERAMIC CHIP	0.1uF		16V	C1121	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
C880		0070	1 104 000 11	OED WAND OFFID	0.1		461/	01105	1 107 996 01	CEDAMIC CHID	0.105	100/	16V
C821   1-126-206-11   ELECT CHIP   100uF   20%   6.3V   C1128   1-126-206-11   ELECT CHIP   100uF   20%   6.00   C822   1-164-360-11   CERAMIC CHIP   0.1uF   16V   CN001   1-774-770-11   CONNECTOR, FFC/FPC 30P   CR54   1-164-360-11   CERAMIC CHIP   0.1uF   16V   CN001   1-774-770-11   CONNECTOR, FFC/FPC 30P   CR55   1-162-964-11   CERAMIC CHIP   0.01uF   16V   CN001   1-774-770-11   CONNECTOR, FFC/FPC 30P   CN001   1-784-225-11   CONNECTOR, FFC/FPC 30P   CN001   1-784-225-11   CNNECTOR, FFC/FPC 30P   CN001   1-784-205-11   CNNECTOR, FFC/FPC 30P   CN001   1-794-205-11   CNNECTOR, FFC/FPC 30P   CN001   1-774-770-11   CNNECTOR, FFC/FPC 30P   CN001   C								1					16V
C882						200/		1					6.3V
CREST   1-126-393-11   ELECT CHIP   33uF   20%   10V	*					2070		01120	1-120-200-11	LLLUI OIIIF	Toour	20 /0	0.54
C852   1-164-380-11   CERAMIC CHIP   0.1uF   16V   CN001   1-774-770-11   CONNECTOR, FFC/FPC 30P   CR55   1-162-964-11   CERAMIC CHIP   0.1uF   16V   CN102   1-774-770-11   CONNECTOR, FFC/FPC 30P   CN201   1-764-250-11   CONNECTOR, FFC/FPC 30P   CN201   1-764-250-11   CONNECTOR, FFC/FPC 20P   CN201   1-764-250-11   CONNECTOR, FFC/FPC 20P   CN201   1-764-250-11   CONNECTOR, FFC/FPC 20P   CN201   1-774-770-11   CONNECTOR, FFC/FPC 20P   CN201   1-774-770-11   CONNECTOR, FFC/FPC 30P   CN201   1-779-369-11   CONNECTOR, FFC/FPC 30P   CN201   1-779-369-11   CONNECTOR, FFC/FPC 30P   CN201   1-779-369-11   CONNECTOR, FFC/FPC 30P   CN201   1-128-013-11   ELECT CHIP   1uF   20%   50V   CN201   1-779-369-11   CONNECTOR, FFC/FPC 30P   CN201   1-128-013-11   ELECT CHIP   1uF   20%   50V   CN201   1-779-369-11   CONNECTOR, FFC/FPC 30P   CN201   1-128-013-11   ELECT CHIP   1uF   20%   50V   CN201   1-779-369-11   CONNECTOR, FFC/FPC 30P   CN201   1-128-013-11   ELECT CHIP   1uF   20%   50V   CN201   1-779-344-11   CONNECTOR, FFC/FPC 30P   CN201   1-128-013-11   ELECT CHIP   0.1uF   16V   CN201   1-779-344-11   CONNECTOR, FFC/FPC 20P   CN201   1-141-424-11   CN201   CN201   CN201   1-141-424-11   CN201						20%				< CONNECTOR >			
C852		000.1	1 120 000 11	ELLOT OTH	Cour		101						
C854   1-164-360-11   CERAMIC CHIP   0.1		C852	1-164-360-11	CERAMIC CHIP	0.1uF			1		•			
C855   1-162-984-11   CERAMIC CHIP   0.01uF   10%   50V   CN601   1-764-265-11   CONNECTOR, FFC/FPC 26P   CN602   1-162-984-11   CERAMIC CHIP   0.01uF   10%   50V   CN601   1-564-005-11   PIN, CONNECTOR, 6P   CN602   1-779-369-11   CONNECTOR, FFC/FPC 20P   CN605   1-162-970-11   CERAMIC CHIP   0.1uF   16V   CN851   1-774-770-11   CONNECTOR, FFC/FPC 30P   CN852   1-162-970-11   CERAMIC CHIP   0.1uF   16V   CN851   1-774-770-11   CONNECTOR, FFC/FPC 30P   CN852   1-770-305-11   CONNECTOR, FFC/FPC 10P   CN852   1-770-305-11   CONNECTOR, FFC/FPC 20P   CN853   1-164-360-11   CERAMIC CHIP   0.1uF   16V   CN854   1-774-344-11   CONNECTOR, FFC/FPC 20P   CN855   1-588-788-21   PIN, CONNECTOR, FFC/FPC 20P   CN854   1-164-360-11   CERAMIC CHIP   0.1uF   16V   CT201   1-141-424-11   CAP, ADJ (DECODER FREERUN)   CN854   1-164-360-11   CERAMIC CHIP   0.1uF   16V   CT201   1-141-424-11   CAP, ADJ (DECODER FREERUN)   CN854   1-162-90-11   CERAMIC CHIP   0.1uF   16V   CN854			1-164-360-11	CERAMIC CHIP	0.1uF			CN101					
C856   1-162-964-11   CERAMIC CHIP   0.01uF   10%   50V   CN601   1-564-005-11   PIN, CONNECTOR 6P			1-164-360-11	CERAMIC CHIP									
Case								1					
C858		C856	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	* CN601	1-564-005-11	PIN, CONNECTO	R 6P		
C858		C857	1-164-360-11	CERAMIC CHIP	0.1uF		16V	CN602	1-779-369-11	CONNECTOR, SO	UARE TYP	E(INDI)4	₽P
C859						10%				001111201011,01			DV IN/OUT)
Case						1070		CN851	1-774-770-11	CONNECTOR, FF	C/FPC 30P	`	
C861   1-128-013-11   ELECT CHIP   1uF   20%   50V   * CN855   1-568-788-21   PIN, CONNECTOR 11P						20%							
C863								* CN855					
C863		0000	1 160 007 11	CEDAMIC CHID	10005	E0/	501/	CNISES	1_770_2//_11	COMMECTOR ES	C/EDC 20D		
C864						370		CINOSO	1-119-044-11	CONNECTOR, FF	U/17U ZUF		
C865										- TOIMMED			
C866						200/.				< INIMIMEN >			
C867 1-164-360-11 CERAMIC CHIP 0.1uF 16V C868 1-126-400-11 ELECT 22uF 20% 35V C869 1-164-360-11 CERAMIC CHIP 0.1uF 16V D201 8-719-073-01 DIODE MA111-(K8).S0 D401 8-719-073-01 DIODE MA111-(K8).S0 D401 8-719-073-01 DIODE MA111-(K8).S0 D402 8-719-073-01 DIODE MA111-(K8).S0 D403 8-719-002-81 DIODE MA111-(K8).S0 D403 8-719-002-81 DIODE MA111-(K8).S0 D403 8-719-003-01 DIODE MA111-(K8).S0 D403 8-719-073-01 DIODE MA111-(K8).S0 D403 8-719-073-01 DIODE MA111-(K8).S0 D403 8-719-073-01 DIODE MA111-(K8).S0 D403 8-719-073-01 DIODE MA111-(K8).S0 D405 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D408 8-719-073-01 DIODE MA3075WA-(TX) D408 8-719-073-01 DIODE MA3075WA-(TX) D408 8-719-073-01 DIODE MA3075WA-(TX) D408 8-719-073-01 DIODE MA3082-TX D408 8-719-073-01 DIODE MA3082-TX D408 8-719-073-01 DIODE MA3082-TX D408 8-719-073-01 DIODE MA308-TX D408 8-719-073-01						20 /0		CT201	1-141-424-11	CAP, ADJ (DECO	DER FREER	UN)	
C868										•		,	
C869   1-164-360-11   CERAMIC CHIP   O.1uF   16V   D201   8-719-073-01   DIODE   MA111-(K8).SO   C870   1-162-970-11   CERAMIC CHIP   O.01uF   10%   25V   D401   8-719-073-01   DIODE   MA111-(K8).SO   D402   8-719-073-01   DIODE   D402										< DIODE >			
C870						20%		D004	0.740.070.04	DIODE MANA	(K6) 60		
C871   1-162-921-11   CERAMIC CHIP   33PF   5%   50V   D401   8-719-073-01   DIODE   MA111-(K8).S0   D402   8-719-073-01   DIODE   MA111-(K8).S0   D402   8-719-073-01   DIODE   MA111-(K8).S0   D403   8-719-002-81   DIODE						109/							•
C872 1-126-204-11 ELECT CHIP 47uF 20% 16V C873 1-164-360-11 CERAMIC CHIP 0.1uF 16V C874 1-164-360-11 CERAMIC CHIP 0.01uF 16V C875 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V C876 1-162-921-11 CERAMIC CHIP 0.01uF 10% 25V C877 1-126-197-11 ELECT CHIP 10uF 20% 50V C878 1-164-360-11 CERAMIC CHIP 0.1uF 16V C879 1-162-975-11 CERAMIC CHIP 24PF 5% 50V C881 1-126-204-11 ELECT CHIP 47uF 20% 16V C882 1-164-360-11 CERAMIC CHIP 0.1uF 16V C883 1-164-360-11 CERAMIC CHIP 0.1uF 16V C884 1-164-360-11 CERAMIC CHIP 0.1uF 16V C885 1-164-360-11 CERAMIC CHIP 0.1uF 16V C886 1-126-207-11 CERAMIC CHIP 0.1uF 16V C887 1-164-360-11 CERAMIC CHIP 0.1uF 16V C888 1-164-360-11 CERAMIC CHIP 0.1uF 16V C888 1-164-360-11 CERAMIC CHIP 0.01uF 16V C888 1-164-2970-11 CERAMIC CHIP 0.01uF 16V C888 1-164-2970-11 CERAMIC CHIP 0.01uF 16V C888 1-164-206-11 ELECT CHIP 0.022uF 10% 25V C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V C887 1-104-905-11 CAPACITOR 0.22F 5.5V C888 1-104-905-11 CAPACITOR 0.22F 5.5V C888 8-719-073-01 DIODE MA738-TX C889 8-719-073-01 DIODE MA738-TX C880 1-104-905-11 CAPACITOR 0.22F 5.5V C880 8-719-073-01 DIODE MA738-TX C881 1-104-905-11 CAPACITOR 0.22F 5.5V C882 8-719-073-01 DIODE MA738-TX C883 1-104-905-11 CAPACITOR 0.22F 5.5V C884 1-104-905-11 CAPACITOR 0.22F 5.5V C885 8-719-073-01 DIODE MA738-TX C886 1-104-905-11 CAPACITOR 0.22F 5.5V C887 1-104-905-11 CAPACITOR 0.22F 5.5V C888 8-719-073-01 DIODE MA711-(K8).S0								1					
C872 1-126-204-11 ELECT CHIP 47uF 20% 16V C873 1-164-360-11 CERAMIC CHIP 0.1uF 16V C874 1-164-360-11 CERAMIC CHIP 0.1uF 16V C875 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V D405 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D408 8-719-073-01 DIODE MA3075WA-(TX) D851 8-719-421-59 DIODE MA3075WA-(TX) D852 8-719-421-51 DIODE MA3082-TX D854 8-719-073-01 DIODE MA111-(K8).S0 D855 8-719-421-51 DIODE MA738-TX D859 8-719-073-02 DIODE MA729-(K8).S0 D856 8-719-073-02 DIODE MA729-(K8).S0 D857 8-719-073-02 DIODE MA728-(K8).S0 D859 8-719-073-01 DIODE MA738-TX D859 8-719-073-01 DIODE MA738-TX D859 8-719-073-01 DIODE MA738-TX D859 8-719-073-01 DIODE MA738-TX		U8/1	1-102-921-11	CENAIVIIC CHIP	3377	370	301						
C873 1-164-360-11 CERAMIC CHIP 0.1uF 16V C874 1-164-360-11 CERAMIC CHIP 0.1uF 16V D404 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D408 8-719-073-01 DIODE MA728-(K8).S0 D408 8-719-073-01 DIODE MA738-TX D408 9-719-073-01 DIODE MA111-(K8).S0 D408 9-719-073-01 DIODE MA738-TX D408 9-719-073-01 DIODE MA111-(K8).S0 D408 9-719-073-01 DIODE MA111-(K8).S0 D408 9-719-073-01 DIODE MA111-(K8).S0 D408 9-719-073-01 DIODE MA11		0790	1-106-00/ 11	ELECT CHIP	47nE	20%	161/						
C874						20/0		D403	0-718-002-01	PIODE 11909-0	ITOA		
C875 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V D406 8-719-073-01 DIODE MA111-(K8).S0 C876 1-162-921-11 CERAMIC CHIP 33PF 5% 50V D406 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D408 8-719-073-01 DIODE MA111-(K8).S0 D409 8-719-073-01 DIODE MA111-(K8).S0								D404	8-719-073-01	DIODE MA111-	(K8) S0		
C876 1-162-921-11 CERAMIC CHIP 33PF 5% 50V D406 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D407 8-719-073-01 DIODE MA111-(K8).S0 D408 8-719-073-01 DIODE MA3075WA-(TX) D408 8-719-073-01 DIODE MA3082-TX D408 8-719-073-01 DIODE MA111-(K8).S0 D408 8-719-073-01 DIODE MA729-(K8).S0 D408 8-719-073-02 DIODE MA729-(K8).S0 D408 8-719-073-01 DIODE MA728-(K8).S0 D408 8-719-073-01 DIODE MA738-TX D408 8-719-073-01 DIODE MA738-TX D40905-11 CAPACITOR 0.22F 5.5V D458 8-719-073-01 DIODE MA738-TX D40905-11 CAPACITOR 0.22F 5.5V D458 8-719-073-01 DIODE MA711-(K8).S0						10%							
C877 1-126-197-11 ELECT CHIP 10uF 20% 50V D408 8-719-073-01 DIODE MA111-(K8).S0 C878 1-164-360-11 CERAMIC CHIP 0.1uF 16V C879 1-162-975-11 CERAMIC CHIP 24PF 5% 50V D651 8-719-002-81 DIODE MA3075WA-(TX) C881 1-126-204-11 ELECT CHIP 47uF 20% 16V D851 8-719-421-59 DIODE MA3075WA-(TX) C882 1-164-360-11 CERAMIC CHIP 0.1uF 16V D852 8-719-400-71 DIODE MA3082-TX D854 8-719-073-01 DIODE MA111-(K8).S0 C883 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V D855 8-719-421-51 DIODE MA738-TX C884 1-164-360-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-28 DIODE MA729-(K8).S0 C885 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V D857 8-719-073-02 DIODE MA728-(K8).S0 C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-01 DIODE MA728-(K8).S0 C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-073-01 DIODE MA738-TX D859 8-719-073-01 DIODE MA111-(K8).S0													
C877 1-126-197-11 ELECT CHIP 10uF 20% 50V D408 8-719-073-01 DIODE MA111-(K8).S0 C878 1-164-360-11 CERAMIC CHIP 0.1uF 16V C879 1-162-975-11 CERAMIC CHIP 24PF 5% 50V D651 8-719-02-81 DIODE 1T363-01-T8A C881 1-126-204-11 ELECT CHIP 47uF 20% 16V D851 8-719-421-59 DIODE MA3075WA-(TX) C882 1-164-360-11 CERAMIC CHIP 0.1uF 16V D852 8-719-400-71 DIODE MA3082-TX D854 8-719-073-01 DIODE MA111-(K8).S0 C883 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V D855 8-719-421-51 DIODE MA738-TX C884 1-164-360-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-28 DIODE MA729-(K8).S0 C885 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-02 DIODE MA728-(K8).S0 C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-02 DIODE MA728-(K8).S0 C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-073-01 DIODE MA711-(K8).S0		007.0	1-102-921-11	GENAIMIC CHIP	JULI	J /6	J0 V						
C878         1-164-360-11         CERAMIC CHIP         0.1uF         16V           C879         1-162-975-11         CERAMIC CHIP         24PF         5%         50V         D651         8-719-002-81         DIODE         1T363-01-T8A           C881         1-126-204-11         ELECT CHIP         47uF         20%         16V         D851         8-719-421-59         DIODE         MA3075WA-(TX)           C882         1-164-360-11         CERAMIC CHIP         0.1uF         16V         D852         8-719-400-71         DIODE         MA3082-TX           D854         8-719-073-01         DIODE         MA3082-TX         D854         8-719-073-01         DIODE         MA111-(K8).S0           C883         1-162-970-11         CERAMIC CHIP         0.01uF         16V         D855         8-719-421-51         DIODE         MA738-TX           C884         1-164-360-11         CERAMIC CHIP         0.1uF         16V         D855         8-719-073-28         DIODE         MA729-(K8).S0           C885         1-164-227-11         CERAMIC CHIP         0.022uF         10%         25V         D856         8-719-073-28         DIODE         MA729-(K8).S0           C886         1-126-206-11         ELECT CHIP         100uF		C877	1-126-197-11	FLECT CHIP	10uF	20%	50V						
C879 1-162-975-11 CERAMIC CHIP 24PF 5% 50V D651 8-719-002-81 DIODE 1T363-01-T8A C881 1-126-204-11 ELECT CHIP 47uF 20% 16V D851 8-719-421-59 DIODE MA3075WA-(TX) C882 1-164-360-11 CERAMIC CHIP 0.1uF 16V D852 8-719-400-71 DIODE MA3082-TX D854 8-719-073-01 DIODE MA3082-TX D854 8-719-073-01 DIODE MA111-(K8).S0 C883 1-162-970-11 CERAMIC CHIP 0.0uF 10% 25V D855 8-719-421-51 DIODE MA738-TX C884 1-164-360-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-28 DIODE MA729-(K8).S0 C885 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-02 DIODE MA729-(K8).S0 C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-02 DIODE MA728-(K8).S0 C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-073-01 DIODE MA738-TX D859 8-719-073-01 DIODE MA111-(K8).S0						20/0		D-00	0.710.070=01	PIODE MINITIF	,,,,,,,,,		
C881 1-126-204-11 ELECT CHIP 47uF 20% 16V D851 8-719-421-59 DIODE MA3075WA-(TX) C882 1-164-360-11 CERAMIC CHIP 0.1uF 16V D852 8-719-400-71 DIODE MA3082-TX D854 8-719-073-01 DIODE MA111-(K8).S0 C883 1-162-970-11 CERAMIC CHIP 0.0uF 10% 25V D855 8-719-421-51 DIODE MA738-TX C884 1-164-360-11 CERAMIC CHIP 0.1uF 16V C885 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-28 DIODE MA729-(K8).S0 C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-02 DIODE MA728-(K8).S0 C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-421-51 DIODE MA738-TX D859 8-719-073-01 DIODE MA111-(K8).S0						5%		D651	8-719-002-81	DIODE 1T363-0	1-T8A		
C882         1-164-360-11         CERAMIC CHIP         0.1uF         16V         D852         8-719-400-71         DIODE MA3082-TX           C883         1-162-970-11         CERAMIC CHIP         0.01uF         10%         25V         D855         8-719-421-51         DIODE MA711-(K8).S0           C884         1-164-360-11         CERAMIC CHIP         0.1uF         16V         16V           C885         1-164-227-11         CERAMIC CHIP         0.022uF         10%         25V         D856         8-719-073-28         DIODE MA729-(K8).S0           C886         1-126-206-11         ELECT CHIP         100uF         20%         6.3V         D857         8-719-073-02         DIODE MA728-(K8).S0           C887         1-104-905-11         CAPACITOR         0.22F         5.5V         D858         8-719-421-51         DIODE MA738-TX           D859         8-719-073-01         DIODE MA711-(K8).S0         DIODE MA711-(K8).S0								1					
C883 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V D855 8-719-421-51 DIODE MA111-(K8).S0 C884 1-164-360-11 CERAMIC CHIP 0.1uF 16V C885 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-28 DIODE MA729-(K8).S0 C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-02 DIODE MA728-(K8).S0 C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-073-01 DIODE MA738-TX D859 8-719-073-01 DIODE MA111-(K8).S0						2370							
C883 1-162-970-11 CERAMIC CHIP 0.01uF 10% 25V D855 8-719-421-51 DIODE MA738-TX  C884 1-164-360-11 CERAMIC CHIP 0.1uF 16V  C885 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-28 DIODE MA729-(K8).S0  C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-02 DIODE MA728-(K8).S0  C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-421-51 DIODE MA738-TX  D859 8-719-073-01 DIODE MA711-(K8).S0		3002	. 10-1 000 11	02101000101	31 T W1								
C884 1-164-360-11 CERAMIC CHIP 0.1uF 16V C885 1-164-227-11 CERAMIC CHIP 0.022uF 10% 25V D856 8-719-073-28 DIODE MA729-(K8).S0 C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-02 DIODE MA728-(K8).S0 C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-421-51 DIODE MA738-TX D859 8-719-073-01 DIODE MA111-(K8).S0		C883	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C885       1-164-227-11       CERAMIC CHIP       0.022uF       10%       25V       D856       8-719-073-28       DIODE       MA729-(K8).S0         C886       1-126-206-11       ELECT CHIP       100uF       20%       6.3V       D857       8-719-073-02       DIODE       MA728-(K8).S0         C887       1-104-905-11       CAPACITOR       0.22F       5.5V       D858       8-719-421-51       DIODE       MA738-TX         D859       8-719-073-01       DIODE       MA111-(K8).S0											' .		
C886 1-126-206-11 ELECT CHIP 100uF 20% 6.3V D857 8-719-073-02 DIODE MA728-(K8).S0 C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-421-51 DIODE MA738-TX D859 8-719-073-01 DIODE MA111-(K8).S0						10%		D856	8-719-073-28	DIODE MA729-	K8).S0		
C887 1-104-905-11 CAPACITOR 0.22F 5.5V D858 8-719-421-51 DIODE MA738-TX D859 8-719-073-01 DIODE MA111-(K8).S0													
D859 8-719-073-01 DIODE MA111-(K8).S0													
C888 1-126-927-11 ELECT 1000uF 20% 6.3V D860 8-719-073-01 DIODE MA111-(K8).S0								D859	8-719-073-01	DIODE MA111-	K8).S0		
		C888	1-126-927-11	ELECT	1000uF	20%	6.3V	D860	8-719-073-01	DIODE MA111-	K8).S0		

	Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	Remark
	D862	8-719-400-56	DIODE MA3062H-TX		10210	0.750.744.00	IO NUMBER ADDA (TEO)	
	D863				1		IC NJM2240M(TE2)	
	D000	0-119-421-09	DIODE MA3075WA-(TX)		IC211		IC CXD2023Q (DSR-40)	
			DEL AVILINE		IC211	8-752-372-78	IC CXD2024AQ-TL (DSR-40P)	
			< DELAY LINE >					
	D1 004	4 444 004 44	LINE LODEL NA		IC212		IC TK16074MTL	
	DL201		LINE, LC DELAY		IC213		IC M51271FP-70AD	
	DL202	1-415-551-11			IC214		IC CXA1521M-T4	
	DL401	1-415-551-11			IC215	8-759-449-58	IC LM7131BCM5X	
	DL402	1-415-551-11	DELAY LINE 140NS		1C216	8-759-239-58	IC TC74HC221AF(EL) (DSR-40P)	
	DL403	1-415-551-11	DELAY LINE 140NS				( ) ( ,	
					IC217	8-759-324-99	IC MM1118XFBE	
			< FERRITE BEAD >		IC218		IC LM7131BCM5X	
					IC219		IC TC7S00FU(TE85R) (DSR-40P)	
	FB401	1-414-445-11	FERRITE OUH		10401		IC LM7131BCM5X	
	FB402	1-414-445-11			IC402		IC TK16074MTL	
	FB403	1-414-445-11			10402	0-139-490-21	IC TRIBUTAINTE	
	FB404	1-414-445-11			10400	0.750.400.07	IO TX4007484TI	
	FB405				IC403		IC TK16074MTL	
	rb400	1-414-445-11	FERRITE OUH		1C404		IC MM1115XFBE	
	FD 400	4 44 4 44 7 4 4			IC405		IC MM1111XFBE	
	FB406	1-414-445-11			IC406	8-759-432-78	IC MM1111XFBE	
	FB407	1-414-445-11			IC407	8-752-054-80	IC CXA1521M-T4	
	FB408	1-414-445-11						
	FB409	1-414-445-11	FERRITE OUH		IC408	8-752-052-73	IC CXA1451M-T4	
	FB410	1-414-445-11			IC409		IC CXA1451M-T4	
					IC410		IC CXA1451M-T4	
	FB411	1-414-445-11	FERRITE OUH		IC411		IC CXA1521M-T4	
		1-414-445-11			IC412		IC LM7131BCM5X	
	FB651	1-414-445-11			10412	0-735-445-50	IC LIVITISTECTION	
	FB652	1-414-445-11		•	10412	0 750 440 50	IC IMPTOTECTOR	
	FB851				IC413		IC LM7131BCM5X	
	LDOOL	1-543-948-22	FERRITE OUH		IC414		IC LM7131BCM5X	
	FB050	4 540 040 00	FERRITE	•	IC415		IC CXA1451M-T4	
	FB852	1-543-948-22			IC416		IC CXA1521M-T4 (DSR-40P)	
	FB853	1-543-948-22	FERRITE OUH		IC417	8-752-052-73	IC CXA1451M-T4	
			< FILTER >		IC418	8-759-449-58	IC LM7131BCM5X	
					IC419	8-752-052-73	IC CXA1451M-T4	
	FL201	1-236-925-11	FILTER, LOW PASS		IC420		IC CXA1211M-T4	
,	FL202		FILTER, BAND PASS (DSR-40)	İ	IC421		IC LM7131BCM5X	
			FILTER, BAND PASS (DSR-40P)		IC422		IC M51272FP-TE2	
			FILTER, LOW PASS		TOTEL	0 700 000 00	10 M3127211-1L2	
			FILTER, LOW PASS		IC423	9 750 164 00	10 1 47010M TF D	
	1 4204	1-200-300-11	FILTER, LOW FASS				IC LA7218M-TE-R	
	ELOOE	1 000 501 11	FILTER LOW PAGE		IC424		IC TC7S04F(TE85R)	
			FILTER, LOW PASS				IC MB90089PF-G-196-BND-ER	
	FL401	1-235-786-11	FILTER, LOW PASS (3MHz) (DSR-40)	'	IC426		IC LM7131BCM5X	
	FL401	1-235-584-11	FILTER, LOW PASS (DSR-40P)		IC427	8-752-054-80	IC CXA1521M-T4	
			FILTER, LOW PASS	ļ				
	FL403	1-235-161-00	FILTER, BAND PASS (DSR-40)		IC428		IC CXA1521M-T4	
					IC429	8-752-054-80	IC CXA1521M-T4	3
	FL403	1-235-181-00	FILTER, BAND PASS (DSR-40P)	İ	IC430		IC LM7131BCM5X	
		· · · · · · · · · · · · · · · · · · ·		1	IC602	8-759-349-01	IC MC68HC68VBIFB	
			< IC >	1	1C651		IC MB90089PF-G-155-BND-ER	
				1				
	IC001	8-759-446-66	IC MM1113XFBE	İ	IC652	8-759-164-09	IC LA7218M-TE-R	
			IC MM1113XFBE		IC653		IC MM1115XFBE	
			IC TC74VHC08FT(EL)		IC654		IC CXA1451M-T4	
			IC TC7W125FU-TE12R		IC851		IC NJM2129M-TE2	
			IC TC74VHC125FT(EL)					
	10103	0-139-324-04	10 10/4VN0123F1(EL)		IC853	0-709-303-18	IC TC7ST04FU(TE85R)	
	10104	9 750 404 47	IO TOZAVUJOTOGACTICI V		10054	0.750.570.40	10. 057040404	
			IC TC74VHCT08AFT(EL)		IC854		IC S579191PJ	
			IC TC74VHCT08AFT(EL)		IC855		IC TC74HC4053AFT(EL)	
			IC TC74VHCT08AFT(EL)		IC856		IC AK6440AM-E2	
			IC MM1115XFBE		IC857		IC CONVERTER UNIT, DC/DC	
	IC202	8-759-433 <b>-</b> 44	IC MM1031XML		IC858	8-759-538-14	IC S-3513BEFS-TB	
			IC MM1115XFBE		IC859	8-759-248-87	IC MM1256XF-BE	
			IC TK16074MTL				IC TL1596CPWR	
			IC MM1111XFBE		IC861		IC L79M05T-FA-TL	•
			IC CXA1521M-T4		IC862	8-759-157-22		
			IC TK16074MTL				IC M62352GP-75ED	
	.0201	0 100 700-ZI	TO THE TWEET		1011100	0-100-000-21	IO WIOZOJZGE"/DED	
	IC208	8-752-054-80 I	IC CXA1521M-T4	1	101110	8-750-62F 27	IC M62352GP-75ED	
			IC LM7131BCM5X					
	10203	U 100-448-00 I	LIVIT ISTERINON	, [	101114	0-/09-030-2/	IC M62352GP-75ED	

									· L	17 100	
_	. Na	David Na	Description	D		Dof No	Dort No.	Description		Remar	de
<u>n</u>	ef. No.	Part No.	Description	· -	<u>emark</u>	Ref. No.	Part No.		ID 00::11	nemai	7
	IC1115		IC TC7S08F(TE8			L655 L656	1-410-385-11 1-412-029-11	INDUCTOR CH			
	161116	8-759-234-20	IC TC7S08F(TE8	on)		L851		INDUCTOR CH			
			< JACK >			2001	1 412 020 11	1110001011011			
						L852	1-412-026-11	INDUCTOR CH	IP 1uH		
	J851			E (DIA. 3.5) (CONTROL	S)	L853	1-412-031-11	INDUCTOR CH			
	J852	1-691-258-21	JACK (LANC)			L854	1-412-029-11	INDUCTOR CH			
			.0011			L857 L858	1-412-029-11	INDUCTOR CH			
			< COIL >			L000	1-412-029-11	INDUCTOR OR	ir loun		
	L001	1-412-955-11	INDUCTOR	22uH (DSR-40)				< TRANSISTOR	<b>?</b> >		
	L001	1-410-384-31	INDUCTOR CHIP						*.		
	L002	1-412-955-11		22uH (DSR-40)		Q001			2SC4081T106R		
	L002			18uH (DSR-40P)		0002			2SC4081T106R 2SC4081T106R		
	L003	1-412-963-11	INDUCTOR	100uH (DSR-40)		Q003 Q004			2SC4081T106R		
	L003	1-410-392-11	INDUCTOR CHIP	82uH (DSR-40P)		Q101		TRANSISTOR		1.1	
	L004	1-414-398-11		10uH (DSR-40)							
	L004			8.2uH (DSR-40P)		0102		TRANSISTOR			
	L201		INDUCTOR CHIP	10uH	İ	Q103		TRANSISTOR			
	L202	1-412-953-11	INDUCTOR	15uH (DSR-40)	.	Q201 Q202			2SC4081T106R 2SC4081T106R		
	L202	1-412-952-11	INDLICTOR	12uH (DSR-40P)		Q202			2SC4081T106R		-
	L203		INDUCTOR CHIP	10uH		4200	0.20 000 00	7717111010101			
	L204	1-412-950-11		8.2uH (DSR-40)	-	Q204	8-729-402-84	TRANSISTOR	XN4601-TW		
	L204	1-412-949-21		6.8uH (DSR-40P)		Q205			2SC4081T106R		
	L205	1-412-029-11	INDUCTOR CHIP	10uH		Q206			2SC4081T106R	р	
	1.006	1 412 020 11	INDUCTOR CHIP	10uU		Q207 Q208			2SA1576A-T106 2SC4081T106R	-H	
	L206 L207		INDUCTOR CHIP			Q200	0-729-903-55	INAMOIOTON	2304001110011		
	L208		INDUCTOR CHIP			Q209	8-729-026-52	TRANSISTOR	2SA1576A-T106	-R	
	L209	1-410-381-11	INDUCTOR CHIP			Q210		TRANSISTOR			
	L210	1-412-953-11	INDUCTOR	15uH (DSR-40)		Q211			2SC4081T106R		
	1040	1 410 050 44	INDUCTOR	40U (DOD 40D)		Q212			2SC4081T106R	D	
	L210 L211	1-412-952-11 1-412-950-11		12uH (DSR-40P) 8.2uH (DSR-40)		Q213	8-729-026-52	TRANSISTUR	2SA1576A-T106	-H	
	L211	1-412-930-11		6.8uH (DSR-40P)		Q214	8-729-026-52	TRANSISTOR	2SA1576A-T106	-R	
	L212	1-412-808-21		470uH		Q215			2SA1576A-T106		
	L214		INDUCTOR CHIP	47uH		Q216			2SC4081T106R		
						Q217			2SC4081T106R		
	L215		INDUCTOR CHIP			Q218	8-729-905-35	TRANSISTOR	2SC4081T106R		
	L216 L217		INDUCTOR CHIP			Q219	8-729-026-52	TRANSISTOR	2SA1576A-T106	-R	
	L218		INDUCTOR CHIP			Q220			2SC4081T106R		
	L219	1-412-029-11	INDUCTOR CHIP	10uH (DSR-40P)		Q221			2SC4081T106R		
						Q222			2SC4081T106R	_	
	L401		INDUCTOR CHIP			Q223	8-729-026-52	TRANSISTOR	2SA1576A-T106	-к	
	L402 L403		INDUCTOR CHIP		1	0224	8-729-905-35	TRANSISTOR	2SC4081T106R		
	L403		INDUCTOR CHIP			Q225			2SC4081T106R		
	L405		INDUCTOR CHIP			Q226		TRANSISTOR			
						Q227			2SC4081T106R		
	L406		INDUCTOR CHIP			Q228	8-729-905-35	TRANSISTOR	2SC4081T106R		
	L407 L408		INDUCTOR CHIP			0229	8.720.005.25	TRANSISTAD	2SC4081T106R		
	L409		INDUCTOR CHIP			Q230			2SC4081T106R		
	L410		INDUCTOR CHIP			Q231			2SC4081T106R		
						Q232			2SA1576A-T106-	R	
			INDUCTOR CHIP			Q233	8-729-905-35	TRANSISTOR	2SC4081T106R		
			INDUCTOR CHIP			0004	0 700 005 05	TDANCICTOR	000400474000		
	L413		INDUCTOR CHIP INDUCTOR CHIP		1	Q234 Q235			2SC4081T106R 2SA1576A-T106-	R	
	L601 L602		INDUCTOR CHIP			Q236			2SA1576A-T106-		
		. ,,5 550 61				Q401			2SC4081T106R	7	
			INDUCTOR CHIP			Q402			2SC4081T106R		
	L603		INDUCTOR CHIP								
			INDUCTOR CHIP			Q403			2SC4081T106R		
	L651 L652		INDUCTOR CHIP			Q404 Q405	8-729-402-84 8-729-402-84				
	LUJZ	1-410-000-11	MUDOLON OHP	LEUII		Q406			2SC4081T106R		
	L653	1-412-029-11	INDUCTOR CHIP	10uH		Q407			2SC4081T106R		
			INDUCTOR CHIP		1						

В	tef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
	Q408		TRANSISTOR	25C/081T1/	neB		R107	1-216-797-11	METAL CHIP	10	5%	1/16W
	Q409		TRANSISTOR				R108	1-216-833-11		10K	5%	1/16W
			TRANSISTOR				R109	1-216-797-11		10	5%	1/16W
,	Q410		TRANSISTOR				R110	1-216-797-11	METAL CHIP	10	5%	1/16W
	Q411 Q412		TRANSISTOR				1110	1-210-797-11	WEINE OIM	10	0 /0	171011
	Q412	0-129-402-04	INAIVOIOIUN	VIA4001-1 AA			R112	1-216-833-11	METAL CHIP	10K	5%	1/16W
	0440	0 700 400 04	TRANSISTOR	VNIACO4 TW			R113	1-216-864-11	METAL CHIP	0	5%	1/16W
	Q413		TRANSISTOR				R114	1-216-809-11		100	5%	1/16W
	Q414		TRANSISTOR				R115	1-216-809-11		100	5%	1/16W
	Q415		TRANSISTOR				R117	1-216-809-11	METAL CHIP	100	5%	1/16W
	Q416						NII/	1-210-009-11	WILIAL CITT	100	J 70	171000
	Q417	8-729-020-32	TRANSISTOR	25A15/6A-1	100-N		R118	1-216-797-11	METAL CHID	10	5%	1/16W
	0440	0.700.000.50	TRANCICTOR	004457647	100 D		R119	1-216-797-11	METAL CHIP	10	5%	1/16W
	Q418		TRANSISTOR				LIIS	1-210-797-11	WETAL OTTE	10	J /0	(DSR-40P)
	Q419		TRANSISTOR				R120	1-216-809-11	METAL CHIP	100	5%	1/16W
	Q420						R121	1-216-809-11	METAL CHIP	100	5%	1/16W
	Q421		TRANSISTOR TRANSISTOR				NIZI	1-210-003-11	WILLIAL GITTE	100	. 070	171000
	Q422	0-729-402-04	INAMOISTON	AN4001-100			R122	1-216-809-11	METAL CHIP	100	5%	1/16W
	0.400	0.700.400.04	TRANSISTOR	VNACO1 TW			R123	1-216-809-11	METAL CHIP	100	5%	1/16W
	Q423					D)	R124	1-216-809-11		100	5%	1/16W
	0424		TRANSISTOR TRANSISTOR			r)	R125	1-216-809-11		100	5%	1/16W
	Q425						1		METAL CHIP	100	5%	1/16W
	Q426		TRANSISTOR				R126	1-216-809-11	METAL CHIP	100	J /0	171000
	Q427	8-729-402-42	TRANSISTOR	UN5213-1X			D107	1-216-797-11	METAL CHID	10	5%	1/16W
	0.400	0 700 005 05	TRANSICTOR	0004004T4	000		R127		METAL CHIP	100	5%	1/16W
	Q428		TRANSISTOR				R128	1-216-809-11		100	5%	1/16W
	0429		TRANSISTOR				R129	1-216-797-11		100	5%	1/16W
	Q430		TRANSISTOR				R130	1-216-809-11		100	5%	1/16W
	Q431		TRANSISTOR				R131	1-216-809-11	METAL CHIP	100	376	1/1000
	Q432	8-729-905-35	TRANSISTOR	2504081110	JOH		D120	1-216-797-11	METAL CHIP	10	5%	1/16W
	0.400	0 700 005 05	TRANSISTOR	0004004744	OD.		R132	1-216-797-11	METAL CHIP	100	5%	1/16W
	Q433		TRANSISTOR				R133	1-216-809-11		100	5%	1/16W
	Q601		TRANSISTOR				R135			100	5%	1/16W
	Q602		TRANSISTOR				R136	1-216-809-11		100	5%	1/16W
	Q604		TRANSISTOR				R137	1-216-809-11	METAL CHIP	100	376	171000
	Q605	8-729-905-35	TRANSISTOR	2504081110	J6R		D400	1 010 000 11	METAL CLUD	100	5%	1/16W
	/			000100171			R138	1-216-809-11		100		1/16W
	Q606		TRANSISTOR				R139	1-216-809-11		100	5%	
	Q607		TRANSISTOR				R140	1-216-809-11		100	5%	1/16W
	Q613		TRANSISTOR				R141	1-216-809-11		100	5%	1/16W
	Q651		TRANSISTOR				R142	1-216-809-11	METAL CHIP	100	5%	1/16W
	Q652	8-729-905-35	TRANSISTOR	2SC4081110	J6R		D4:40	1 010 000 11	METAL OLUB	100	E0/	1/1CW
							R143	1-216-809-11		100	5%	1/16W
	Q653		TRANSISTOR				R144	1-216-809-11		100	5%	1/16W
	Q654		TRANSISTOR				R145	1-216-809-11		100	5%	1/16W
	Q851		TRANSISTOR				R146	1-216-797-11		10	5%	1/16W
	Q852		TRANSISTOR				R147	1-216-797-11	METAL CHIP	10	5%	1/16W
	Q853	8-729-905-35	TRANSISTOR	2SC4081110	J6R		D4.40	1 040 707 44	METAL OLUD	40	E0/	1/16/1/
							R148	1-216-797-11		10	5%	1/16W
	Q854		TRANSISTOR				R152	1-216-833-11		10K	5%	1/16W
	Q855	8-729-014-91	TRANSISTOR	2SD2185S-1	ΙX		R153	1-216-833-11		10K	5%	1/16W
							R154	1-216-833-11		10K	5%	1/16W
			< RESISTOR >				R156	1-216-809-11	METAL CHIP	100	5%	1/16W
							2455	1 010 000 11	METAL OLUB	100	E0/	4 /4 (2) 4/
	R001	1-216-839-11		33K	5%	1/16W	R157	1-216-809-11		100	5%	1/16W
	R002	1-216-829-11		4.7K	5%	1/16W	R158	1-216-809-11	METAL CHIP	100	5%	1/16W
	R003	1-216-829-11		4.7K	5%	1/16W	R159	1-216-809-11		100.	5%	1/16W
	R004	1-216-821-11		1K	5%	1/16W	R160	1-216-809-11		100	5%	1/16W
	R005	1-216-821-11	METAL CHIP	1K	5%	1/16W	R161	1-216-809-11	METAL CHIP	100	5%	1/16W
							1.					
	R006	1-216-829-11		4.7K	5%	1/16W	R162	1-216-809-11		100	5%	1/16W
	R007	1-216-821-11		1K	5%	1/16W	R163	1-216-809-11		100	5%	1/16W
	R008	1-216-821-11		1K	5%	1/16W	R164	1-216-809-11		100	5%	1/16W
	R009	1-216-813-11		220	5%	1/16W	R165	1-216-809-11		100	5%	1/16W
	R010	1-216-829-11		4.7K	5%	1/16W	R167	1-216-809-11	METAL CHIP	100	5%	1/16W
	R101	1-216-797-11		10	5%	1/16W	R168	1-216-809-11		100	5%	1/16W
	R102	1-216-797-11		10	5%	1/16W	R169	1-216-809-11		100	5%	1/16W
	R103	1-216-833-11		10K	5%	1/16W	R171	1-216-809-11		100	5%	1/16W
. *	R104	1-216-833-11	METAL CHIP	10K	5%	1/16W	R172	1-216-809-11		100	5%	1/16W
	R105	1-216-797-11		10	5%	1/16W	R173	1-216-809-11	METAL CHIP	100	5%	1/16W
											_:	
	R106	1-216-797-11	METAL CHIP	10	5%	1/16W	R174	1-216-809-11	METAL CHIP	100	5%	1/16W

									,		
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R175	1-216-809-11	METAL CHIP	100	5%	1/16W	R255	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R176	1-216-809-11		100	5%	1/16W	R256	1-216-825-11		2.2K	5%	1/16W
R177	1-216-809-11		100	5%	1/16W	R257	1-216-829-11		4.7K	5%	1/16W
R177	1-216-809-11		100	5%	1/16W	R258	1-216-828-11		3.9K	5%	1/16W
11170	1 210 000 11			0.0	.,	1					
R179	1-216-809-11		100	5%	1/16W	R259	1-218-841-11		560	0.50%	
R180	1-216-809-11	METAL CHIP	100	5%	1/16W	R260	1-218-877-11		18K	0.50%	
R181	1-216-809-11	METAL CHIP	100	5%	1/16W	R261	1-216-838-11		27K	5%	1/16W
R201	1-216-825-11		2.2K	5%	1/16W	R262	1-216-833-11		10K	5%	1/16W
R202	1-216-805-11	METAL CHIP	47	5%	1/16W	R265	1-216-864-11	METAL CHIP	0	5%	1/16W
	1 010 001 11	METAL OLUB	417	F0/	4 /4 0381					•	(DSR-40P)
R203	1-216-821-11		1K	5%	1/16W	Door	4 040 000 44	METAL CHID	10K	5%	1/16W
R204	1-216-837-11		22K	5%	1/16W	R266	1-216-833-11 1-216-813-11		220	5% 5%	1/16W
R205	1-216-839-11		33K	5%	1/16W	R268			560	0.50%	
R206	1-216-821-11		1K	5%	1/16W	R269	1-218-841-11				
R207	1-216-810-11	METAL CHIP	120	5%	1/16W	R270		METAL CHIP	22K	5%	1/16W 1/16W
	1 010 001 11	AAETAL OLUD	417	E0/	4.4044	R271	1-210-03/-11	METAL CHIP	22K	5%	1/1000
R208	1-216-821-11		1K .	5%	1/16W	5070	1 010 000 11	METAL CLUD	401/	E0/	4 /4 C\A/
R209	1-216-825-11		2.2K	5%	1/16W	R272	1-216-833-11		10K	5%	1/16W
R210	1-216-823-11		1.5K	5%	1/16W	R275	1-216-864-11	METAL CHIP	0	5%	1/16W
R211	1-216-817-11		470	5%	1/16W	2070	1 010 000 11	BATTAL OUID	0.014	<b>-0</b> /	(DSR-40)
R212	1-216-837-11	METAL CHIP	22K	5%	1/16W	R276	1-216-828-11		3.9K	5%	1/16W
						R277	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R213	1-216-833-11		10K	5%	1/16W	2070	4 040 000 44	METAL OLUD	401/	E0/	4 /4 (3) 4 /
R214	1-216-825-11		2.2K	5%	1/16W	R278	1-216-833-11		10K	5%	1/16W
R215	1-216-821-11		1K	5%	1/16W	R279	1-216-829-11		4.7K	5%	1/16W
R216	1-216-821-11		1K	5%	1/16W	R280	1-216-837-11		22K	5%	1/16W
R217	1-218-877-11	RES,CHIP	18K	0.50%	1/16W	R281	1-216-813-11		220	5%	1/16W
						R282	1-216-833-11	METAL CHIP	10K	5%	1/16W
R218	1-216-838-11		27K	5%	1/16W			555 01115	4 714	0.500/	4.44.00.84
R219	1-216-821-11		1K	5%	1/16W	R283	1-218-863-11		4.7K	0.50%	
R220	1-216-837-11		22K	5%	1/16W	R284	1-218-707-11		4.3K	5%	1/16W
R221	1-216-834-11		12K	5%	1/16W	R285	1-218-269-11		360	5%	1/16W
R222	1-216-821-11	METAL CHIP	1K	5%	1/16W	R286	1-216-864-11	METAL CHIP	0	5%	1/16W
DOOD	1-216-817-11	METAL CHID	470	5%	1/16W						(DSR-40)
R223			390	5%	1/16W	R287	1-218-823-11	DEC CHID	100	0.50%	1/16W
R224	1-216-816-11				1/16W		1-216-826-11		2.7K	5%	1/16W
R225	1-216-821-11 1-216-807-11		1K	5%	1/16W	R288 R289	1-216-823-11		1.5K	- 5%	1/16W
R226			68	5%		R290	1-216-842-11		56K	5%	1/16W
R227	1-216-821-11	WE IAL UTIP	1K	5%	1/16W	R291	1-216-839-11		33K	5%	1/16W
פפפם	1-216-837-11	METAL CHID	22K	5%	1/16W	n231	1-210-039-11	METAL OTH	331	J /0	1/1044
R228	1-216-833-11		10K	5%	1/16W	R292	1-216-837-11	METAL CHIP	22K	5%	1/16W
R229	1-216-833-11		470	5%	1/16W	R293	1-216-849-11		220K	5%	1/16W
R230			1.5K	5%	1/16W	R294	1-216-829-11		4.7K	5%	1/16W
R231	1-216-823-11		1.5K	5%	1/16W	R295	1-216-821-11		1K	5%	1/16W
R232	1-216-821-11	WE IAL OHIP	11	3 /0	1/1044	R296	1-216-809-11		100	5%	1/16W
Dago	1 016 007 11	METAL CHID	22K	E 0/-	1/16W	N290	1-210-003-11	MEIME OHIT	100	J /6	1/1044
R233	1-216-837-11			5%		P207	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R234	1-216-837-11		22K	5% 5%	1/16W 1/16W	R297 R298	1-216-825-11		2.2K	5%	1/16W
R235	1-216-841-11		47K	5% 5%	1/16W	R299	1-216-821-11		1K	5%	1/16W
R236	1-216-833-11		10K						22K	5%	1/16W
R237	1-216-817-11	WE TAL UHIP	470	5%	1/16W	R300 R301	1-216-837-11 1-216-825-11		2.2K	5% 5%	1/16W
Door	1,016,000,44	METAL CHID	100	E0/.	1/16W	noul	1-210-020-11	WIL IAL UNIP	۷,۷۱	J /0	17 1 0 4 4
R238	1-216-809-11		100	5%		Dana	1-216-821-11	METAL CHIP	1K	5%	1/16W
R239	1-216-829-11		4.7K	5%	1/16W	R302	1-216-823-11		1.5K	5% 5%	1/16W 1/16W
R240	1-216-833-11		10K	5%	1/16W	R303					
R241	1-216-821-11		1K	5%	1/16W	R304	1-216-817-11		470	5%	1/16W
R242	1-216-809-11	METAL CHIP	100	5%	1/16W	R305	1-218-843-11		680	0.50%	
D0.40	1 010 001 11	METAL CLUB	11/	E0/	1/16/1/	R306	1-218-877-11	NEO,UNIP	18K	0.50%	1/16W
R243	1-216-821-11		1K	5%	1/16W	D207	1-216-838-11	METAL CHIE	27K	5%	1/16W
R245	1-216-823-11		1.5K	5% 5%	1/16W	R307	1-216-821-11		27K 1K	5% 5%	1/16W
R246	1-216-825-11		2.2K	5%	1/16W	R308			0	5% 5%	1/16W
R247	1-216-825-11		2.2K	. 5%	1/16W	R309	1-216-864-11				
R248	1-218-831-11	KES,CHIP	220	0.50%	1/16W	R310	1-218-885-11		39K	0.50%	
00.10	4 040 040 44	BATTAL OUT	EOV	E0/	4 /4 0\4/	R312	1-218-867-11	neo,UNIP	6.8K	0.50%	1/16W
R249	1-216-842-11		56K	5%	1/16W	0040	1 010 047 44	METAL CLUB	470	E0/	1/16/4/
R250	1-216-839-11		33K	5%	1/16W	R313	1-216-817-11		470	5%	1/16W
R251	1-216-809-11	METAL CHIP	100	5%	1/16W	R314	1-218-883-11		33K	0.50%	1/16W
R252	1-218-831-11		220	0.50%	1/16W	R315	1-218-867-11		6.8K	0.50%	1/16W
R253	1-216-837-11	WE IAL UHIP	22K	5%	1/16W	R316	1-216-864-11		0 0	5% 5%	1/16W
D054	4 040 045 44	METAL CLUD	1001/	E0/	1/16/0/	R318	1-216-837-11	IVIETAL CHIP	22K	3%	1/16W
R254	1-216-845-11	WETAL CHIP	100K	5%	1/16W						

Ref. No.	Part No.	Description		·	Remark	Ref. No.	Part No.	Description			Remark
			001/	E0/					4.71/	<b>F</b> 0/	
R319 R320	1-216-837-11		22K	5%	1/16W	R403	1-216-829-11		4.7K	5%	1/16W
R321	1-218-879-11 1-216-844-11		22K 82K	0.50%	1/16W 1/16W	R404	1-216-829-11		4.7K	5%	1/16W
R322		METAL CHIP	0∠N 1.8K	5% 5%	1/16W	R405 R406	1-216-829-11		4.7K	5%	1/16W
R323	1-218-869-11		8.2K	0.50%		R407	1-216-829-11		4.7K	5%	1/16W
nozo	1-210-009-11	NEO, UTIL	0.21	0.50%	1/1000	N407	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R324	1-216-833-11	METAL CHIP	10K	5%	1/16W	R408	1-216-821-11	METAL CHIP	1K	5%	1/16W
R325	1-216-817-11		470	5%	1/16W	R409	1-218-863-11		4.7K	0.50%	1/16W
R326	1-218-871-11		10K	0.50%		R410	1-218-861-11		3.9K	0.50%	1/16W
R327	1-216-833-11	,	10K	5%	1/16W	R411		METAL CHIP	18K	5%	1/16W
11027	1 210 000 11	METAL OTH	TOR	0 70	(DSR-40)	R412	1-216-838-11		27K	5%	1/16W
					(5011 10)		1 210 000 11	WEINE OIII	2710	0 70	1/1011
R328	1-216-821-11	METAL CHIP	1K	5%	1/16W	R413	1-216-836-11	METAL CHIP	18K	5%	1/16W
R329	1-216-829-11		4.7K	5%	1/16W	R414	1-216-838-11		27K	5%	1/16W
R330	1-216-853-11		470K	5%	1/16W	R415	1-216-829-11		4.7K	5%	1/16W
R331	1-216-833-11	METAL CHIP	10K	5%	1/16W	R416	1-216-825-11		2.2K	5%	1/16W
R332	1-218-843-11		680	0.50%		R417	1-218-847-11		1K	0.50%	1/16W
R333	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R418	1-218-847-11	RES,CHIP	1K	0.50%	1/16W
R334	1-216-805-11	METAL CHIP	47	5%	1/16W	R419	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
					(DSR-40)	R420	1-218-863-11		4.7K	0.50%	1/16W
R334	1-216-806-11	RES,CHIP	56	5%	1/16W	R421	1-216-837-11	METAL CHIP	22K	5%	1/16W
					(DSR-40P)	R422	1-216-837-11	METAL CHIP	22K	5%	1/16W
R335	1-216-815-11	METAL CHIP	330	5%	1/16W	R423	1-216-837-11	METAL CHIP	22K	5%	1/16W
					(DSR-40)	R424	1-216-837-11	METAL CHIP	22K	5%	1/16W
R335	1-216-809-11	METAL CHIP	100	5%	1/16W	R425	1-216-829-11		4.7K	5%	1/16W
					(DSR-40P)	R426	1-218-862-11	•	4.3K	0.50%	1/16W
R336	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R427	1-216-833-11	METAL CHIP	10K	5%	1/16W
2002	1 010 001 11										
R337	1-216-864-11	METAL CHIP	0	5%	1/16W	R428	1-216-833-11		10K	5%	1/16W
D000	1 010 001 11	ATETAL OLUB	•		DSR-40P)	R429	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R338	1-216-864-11	METAL CHIP	0	5%	1/16W	R430	1-216-837-11	METAL CHIP	22K	5%	1/16W
	1 040 007 44	MASTAL OLUB	0014	F0/	(DSR-40)	R431	1-216-842-11		56K	5%	1/16W
R339	1-216-837-11	METAL CHIP	22K	5%	1/16W	R432	1-216-839-11	METAL CHIP	33K	5%	1/16W
D240	4 046 040 44	METAL CHID	ECV	En/	4.44.0304	0.400	1 010 007 11	MATTAL OLUD	001/	<b>F</b> 0/	4 /4 (2) 8/
R340	1-216-842-11 1-216-839-11		56K	5%	1/16W	R433	1-216-837-11		22K	5%	1/16W
R341			33K	5%	1/16W	R434	1-216-842-11		56K	5%	1/16W
R342	1-216-837-11	METAL CHIP	22K	5%	1/16W	R435	1-216-839-11		33K	5%	1/16W
R343 R344	1-216-837-11 1-216-837-11	METAL CHIP	22K 22K	5% 5%	1/16W 1/16W	R436 R437	1-216-829-11 1-216-829-11	METAL CHIP	4.7K	5%	1/16W
N344	1-210-037-11	WETAL GHIP	221	370	1/1000	N431	1-210-029-11	METAL CHIP	4.7K	5%	1/16W
R345	1-216-845-11	METAL CHIP	100K	5%	1/16W	R438	1-216-829-11	METAL CHID	4.7K	5%	1/16W
R346	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R439	1-216-829-11		4.7K	5%	1/16W
R347	1-216-837-11		22K	5%	1/16W	R440	1-216-829-11		4.7K	5%	1/16W
R348	1-218-841-11		560		1/16W	R441	1-216-829-11		4.7K	5%	1/16W
R349	1-218-833-11		270	0.50%	1/16W	R442	1-216-833-11		10K	5%	1/16W
11010	1 210 000 11	1120,01111	270	0.0070	171011		1 210 000 11	WEINE OIM	1010	070	17 10 44
R350	1-218-851-11	RES.CHIP	1.5K	0.50%	1/16W	R443	1-216-833-11	METAL CHIP	10K	5%	1/16W
R351	1-216-821-11		1K	5%	1/16W	R444	1-216-833-11		10K	5%	1/16W
R352	1-216-840-11		39K	5%	1/16W	R445	1-216-829-11		4.7K	5%	1/16W
					DSR-40P)	R446	1-216-825-11		2.2K	5%	1/16W
R353	1-218-841-11	RES.CHIP	560		1/16W	R447	1-216-829-11		4.7K	5%	1/16W
		,								• / •	.,
R354	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R448	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R355	1-216-837-11		22K	5%	1/16W	R449	1-216-829-11		4.7K	5%	1/16W
R356	1-216-839-11		33K	5%	1/16W	R450	1-218-827-11		150		1/16W
					DSR-40P)	R451	1-216-829-11		4.7K	5%	1/16W
R357	1-216-822-11	METAL CHIP	1.2K	5% `	1/16W	R452	1-216-825-11		2.2K	5%	1/16W
											(DSR-40)
R358	1-216-823-11	METAL CHIP	1.5K	5%	1/16W						,
R359	1-216-825-11		2.2K	5%	1/16W	R452	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R364	1-216-821-11		1 K	5%	1/16W						SR-40P)
R367	1-216-821-11	METAL CHIP	1K	5%	1/16W	R453	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R368	1-216-821-11		1K	5%	1/16W	R454	1-216-826-11		2.7K		1/16W
											(DSR-40)
R369		RES,CHIP	15K	0.50%	1/16W						
R370		RES,CHIP	8.2K	0.50%	1/16W	R454	1-216-825-11	METAL CHIP	2.2K		1/16W
R371	1-218-869-11		8.2K		1/16W						SR-40P)
R401		METAL CHIP	4.7K	5%	1/16W	R455	1-216-825-11		2.2K		1/16W
R402	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R456	1-216-827-11		3.3K		1/16W
	•				1	R457	1-218-827-11	RES,CHIP	150	0.50%	1/16W

RS55   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   RS55   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-825-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-825-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   3.5K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-827-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CHIP   4.7K   5.5K   1.716W   R849   1-216-832-11 METAL CH												
RASS   1-216-820-11 METAL CHIP   1.K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   4.7K   5%   1.16W   RASS   1-216-820-11 METAL CHIP   5.0K   5%   1.16W   RASS   1-216-820-11 METAL CHIP	Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description			Remark
R450   1-216-829-11 METAL CHIP   2.4K   5%   1/16W   R516   1-216-839-11 RES.CHIP   2.4K   5%   1/16W   R517   1-216-829-11 METAL CHIP   2.4K   5%   1/16W   R517   1-216-829-11 METAL CHIP   2.4K   5%   1/16W   R518   1-216-829-11 METAL CHIP   2.7K   5%   1/16W   R519   1-216-829-11 METAL CHIP   4.7K   5%   1/16W   R520   1-216-829-11 METAL CHIP   56K   5%   1/16W   R519   1-216-829-11 METAL CHIP   56K   5%   1/16W   R519   1-216-829-11 METAL CHIP   56K   5%   1/16W   R519   1-216-829-11 METAL CHIP   56K   5%   1/16W   R519   1-216-829-11 METAL CHIP   56K   5%   1/16W   R520		1-216-821-11	METAL CHIP	1K	5%	1/16W	R515	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R460   1-216-829-11 METAL CHIP   3.3K   5.1		1-216-829-11	METAL CHIP		5%							
Red   1-216-829-11 METAL CHIP   A.7K   5%   1/16W   Red   1-216-829-11 METAL CHIP   A.7K   5%   1/16W   Red   1-216-829-11 METAL CHIP   4.7K   5%   1/16W   Red   1-216-829-11 METAL CHIP   500   0.50%   1/16W   Red   1-							R516	1-218-859-11	RES.CHIP	3.3K	0.50%	1/16W
Resc												1/16W
R488   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R64   1-216-829-11   MESCHIP   1K   0.50%   1/16W   R65   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R622   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R623   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R623   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R623   1-216-829-11   METAL CHIP   5K   5%   1/16W   R623   1-216-829-11												1/16W
R469   1-218-829-11   METAL CHIP   1K   0.50%   1/16W   R521   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R656   1-218-847-11   RES.CHIP   1K   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   56K   5%   1/16W   R526   1-218-827-11   RES.CHIP   56K   5%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R526   1-218-827-11   RES.CHIP   1/16W   1/16W   R526   1-218-827-11   RES.CHIP   1/16W   1/16W   R526   1-218-827-11   RES.CHIP   1/16W   1/16W   R526   1-218-827-11   RES.CHIP   1/16W   1/	11402	1-210-020-11	WE FAL OTH	7.71	0 /0	1,1000						1/16W
R465	D460	1 016 000 11	METAL CHID	4.71/	E0/	1/16/1						
Re66 1-216-829-11 METAL CHIP 4.7K 5.50% 1/16W 6524 1-216-82P-71 RESCHIP 50K 5% 1/16							N321	1-210-027-11	neo,onir	130	0.50 /6	1/1000
R466							DE00	1 010 007 11	חבר פווום	150	0.500/	1/16\\
R468   1-216-829-11   METAL CHIP   56K   5%   1/16W   R628   1-216-83211   METAL CHIP   6/5K   5%   1/16W   R628   1-216-83211   METAL CHIP   4/7K   5%   1/16W   R628   1-216-83211   METAL CHIP   4/7K   5%   1/16W   R628   1-216-83211   METAL CHIP   4/7K   5%   1/16W   R628   1-216-83211   METAL CHIP   4/7K   5%   1/16W   R628   1-216-83211   METAL CHIP   2/2K   0.50%   1/16W   R628   1-216-83211   METAL CHIP   2/2K   0.50%   1/16W   R628   1-216-83211   METAL CHIP   1/2K   5%   1/16W   R628   1-216-83211   METAL CHIP   1/2K   5%   1/16W   R628   1-216-83211   METAL CHIP   1/2K   5%   1/16W   R628   1-216-83211   METAL CHIP   1/2K   5%   1/16W   R628   1-216-83211   METAL CHIP   2/2K   0.50%   1/16W   R628   1-216-83211   METAL CHIP   56K   5%   1/16W   R628   1-216-83211   METAL CHIP   56K   5%   1/16W   R628   1-216-83211   METAL CHIP   56K   5%   1/16W   R628   1-216-83211   METAL CHIP   56K   5%   1/16W   R628   1-216-83211   METAL CHIP   56K   5%   1/16W   R628   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R628   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   2/2K   5%   1/16W   R639   1-216-83211   METAL CHIP   1/2K   5												
R46B   1-216-829-11 METAL CHIP   4.7K   5.5%   1/16W   R52B   1-216-8311 METAL CHIP   4.7K   5.5%   1/16W   R62B   1-216-83-11 RES, CHIP   3.9K   0.50%   1/16W   R52B   1-216-835-11 RES, CHIP   2.2K   0.50%   1/16W   R52B   1-216-835-11 RES, CHIP   2.2K   0.50%   1/16W   R52B   1-216-833-11 METAL CHIP   4.7K   0.50%   1/16W   R52B   1-216-833-11 METAL CHIP   4.7K   0.50%   1/16W   R52B   1-216-833-11 METAL CHIP   4.7K   0.50%   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W   1/16W   R52B   1-216-833-11 METAL CHIP   1/16W												
Re68 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R629 1-216-831-11 METAL CHIP 2.2K 0.50% 1/16W R627 1-216-861-11 RES.CHIP 3.0K 0.50% 1/16W R628 1-216-865-11 RES.CHIP 2.2K 0.50% 1/16W R628 1-216-865-11 RES.CHIP 2.2K 0.50% 1/16W R628 1-216-865-11 RES.CHIP 2.2K 0.50% 1/16W R628 1-216-865-11 RES.CHIP 2.2K 0.50% 1/16W R628 1-216-865-11 RES.CHIP 2.2K 0.50% 1/16W R629 1-216-865-11 METAL CHIP 5% 1/16W R628 1-216-865-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R628 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 5% 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R638 1-216-867-11 METAL CHIP 1/16W R6	R467	1-218-863-11	RES,CHIP	4.7K	0.50%	1/16W						
R469   1-218-827-11   RES.CHIP   150   0.50%   1/16W   R627   1-218-855-11   RES.CHIP   2.2K   0.50%   1/16W   R628   1-218-855-11   RES.CHIP   2.2K   0.50%   1/16W   R629   1-218-855-11   RES.CHIP   2.2K   0.50%   1/16W   R629   1-218-831-11   RES.CHIP   2.2K   0.50%   1/16W   R629   1-218-831-11   RES.CHIP   470   5%   1/16W   R631   1-218-831-11   RES.CHIP   470   5%   1/16W   R631   1-218-831-11   RES.CHIP   470   5%   1/16W   R631   1-218-831-11   RES.CHIP   470   5%   1/16W   R631   1-218-831-11   RES.CHIP   470   5%   1/16W   R631   1-218-831-11   RES.CHIP   470   5%   1/16W   R631   1-218-831-11   RES.CHIP   1/16W   R631   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R633   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   2.2K   5%   1/16W   R634   1-218-831-11   RES.CHIP   1/16W   R634   1-218-831-11   RES.CHIP   1/16W   R634   1-218-831-11   RES.CHIP   1/16W   R634   1-218-831-11   RES.CHIP   1/16W   R634   1-218-831-11   RES.CHIP   1/16W   R634   1-218-831-11   RES.CHIP   1/16W												
R470   1-218-861-11   RES.CHIP   3.9 K   0.50%   1/16W   R472   1-218-861-11   RES.CHIP   2.2 K   0.50%   1/16W   R474   1-218-861-11   RES.CHIP   2.2 K   0.50%   1/16W   R529   1-216-833-11   METAL CHIP   10K   5%   1/16   R474   1-218-862-11   RES.CHIP   2.2 K   0.50%   1/16W   R529   1-216-833-11   METAL CHIP   0.50%   1/16W   R475   1-218-863-11   RES.CHIP   2.7 K   0.50%   1/16W   R531   1-216-842-11   METAL CHIP   56K   5%   1/16W   R532   1-216-833-11   METAL CHIP   56K   5%   1/16W   R534   1-216-842-11   METAL CHIP   56K   5%   1/16W   R535   1-216-825-11   METAL CHIP   1/16W   1/16W   R535   1-216-825-11   METAL CHIP   1/16W   1/16W   R535   1-216-825-11   METAL CHIP   1/16W   1/16W   R535   1-216-825-11   METAL CHIP   1/16W   1/16W   R535   1-216-825-11   METAL CHIP   1/16W   1/16W   R535   1-216-825-11   METAL CHIP   1/16W							R526	1-216-841-11	METAL CHIP	47K	5%	1/16W
R472   1-218-861-11   RES,CHIP   190   0.50%   1/16W   R529   1-218-855-11   RES,CHIP   2.2K   0.50%   1/16W   R529   1-218-855-11   RES,CHIP   470   55%   1/16W   R529   1-218-851-11   RES,CHIP   470   55%   1/16W   R521   1-218-845-11   RES,CHIP   4.7K   0.50%   1/16W   R521   1-218-845-11   METAL CHIP   10K   55%   1/16W   R521   1-218-845-11   METAL CHIP   10K   55%   1/16W   R521   1-218-845-11   METAL CHIP   10K   55%   1/16W   R521   1-218-845-11   METAL CHIP   10K   55%   1/16W   R521   1-218-845-11   METAL CHIP   10K   55%   1/16W   R521   1-218-845-11   METAL CHIP   2.2K   55%   1/16W   R523   1-218-825-11   METAL CHIP   4.7K   55%   1/16W   R523   1-218-825-11   METAL CHIP   4.7K   55%   1/16W   R523   1-218-825-11   METAL CHIP   4.7K   55%   1/16W   R524   1-218-823-11   RES,CHIP   1.1K   0.50%   1/16W   R524   1-218-823-11   RES,CHIP   1.1K   0.50%   1/16W   R524   1-218-823-11   METAL CHIP   0.5%   1/16W   R524   1-218-823-11   METAL CHIP   0.5%   1/16W   R524   1-218-823-11   METAL CHIP   0.5%   1/16W   R524   1-218-823-11   METAL CHIP   0.5%   1/16W   R524   1-218-823-11   METAL CHIP   0.5%   1/16W   R524   1-218-823-11   METAL CHIP   0.5%   1/16W   R524   1-218-823-11   METAL CHIP   0.5%   1/16W   R526   1										,		
R472		1-218-861-11	RES,CHIP	3.9K								1/16W
R473   1-216-825-11   METAL CHIP   2.2K   5%   1/16W   R531   1-216-842-11   METAL CHIP   56K   5%   1/16W   R531   1-216-842-11   METAL CHIP   56K   5%   1/16W   R532   1-216-823-11   METAL CHIP   50K   5%   1/16W   R532   1-216-823-11   METAL CHIP   10K   5%   1/16W   R534   1-216-822-11   METAL CHIP   10K   5%   1/16W   R534   1-216-823-11   METAL CHIP   10K   5%   1/16W   R534   1-216-823-11   METAL CHIP   2.2K   5%   1/16W   R535   1-216-823-11   METAL CHIP   2.2K   5%   1/16W   R536   1-216-825-11   METAL CHIP   4.7K   5%   1/16W   R538   1-218-821-11   METAL CHIP   1.2K   5%   1/16W   R538   1-218-821-11   METAL CHIP   1.2K   5%   1/16W   R538   1-218-821-11   METAL CHIP   1.2K   5%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   5%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   5%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R546   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R547   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R547   1-218-823-11   METAL CHIP   1.2K   0.50%   1/16W   R549   1-218-823-11   METAL CHIP   0.5%   1/16W   R549   1-218-823-11   METAL CHIP   0.5%   1/16W   R549   1-218-823-11   METAL CHIP   0.5%   1/16W   R549   1-218-823-11   METAL CHIP   0.5%   1/16W   R549   1-218-823-11   METAL CHIP   0.5%   1/16W   R550   1-218-823-11   METAL CHIP   0.5%   1/16W   R550   1-218-823-11   METAL CHIP   0.5%   1/16W   R550   1-218-823-11   META	R471	1-218-861-11	RES,CHIP	3.9K	0.50%	1/16W	R528	1-218-855-11	RES,CHIP			1/16W
R473   1-216-825-11   METAL CHIP   2.2K   5%   1/16W   R531   1-216-842-11   METAL CHIP   56K   5%   1/16W   R531   1-216-842-11   METAL CHIP   10K   5%   1/16W   R532   1-216-823-11   METAL CHIP   10K   5%   1/16W   R532   1-216-823-11   METAL CHIP   10K   5%   1/16W   R534   1-216-842-11   METAL CHIP   10K   5%   1/16W   R534   1-216-842-11   METAL CHIP   10K   5%   1/16W   R534   1-216-842-11   METAL CHIP   10K   5%   1/16W   R534   1-216-823-11   METAL CHIP   2.2K   5%   1/16W   R535   1-216-823-11   METAL CHIP   2.2K   5%   1/16W   R536   1-216-823-11   METAL CHIP   2.2K   5%   1/16W   R536   1-216-823-11   METAL CHIP   2.2K   5%   1/16W   R536   1-216-823-11   METAL CHIP   2.2K   5%   1/16W   R536   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R536   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R539   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R549   1-216-823	R472	1-218-827-11	RES, CHIP	150	0.50%	1/16W	R529	1-216-833-11	METAL CHIP	10K	5%	1/16W
R373   1-216-829-11   METAL CHIP   2-2K   5%   1/16W   R375   1-218-88-11   RES.CHIP   4.7K   0.50%   1/16W   R375   1-218-88-11   RES.CHIP   4.7K   0.50%   1/16W   R3834   1-216-829-11   METAL CHIP   150K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   150K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   150K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   150K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   150K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   150K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   150K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   2-2K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-216-829-11   METAL CHIP   1.5K   5%   1/16W   R3836   1-							R530	1-216-817-11	METAL CHIP	470	5%	1/16W
R475 1-218-863-11 RES.CHIP 4.7K 0.50% 1/16W R532 1-216-833-11 METAL.CHIP 10K 5% 1/16 R476 1-218-863-11 RES.CHIP 4.7K 0.50% 1/16W R533 1-216-828-11 METAL.CHIP 150K 5% 1/16 R476 1-218-863-11 RES.CHIP 22K 5% 1/16W R535 1-216-828-11 METAL.CHIP 150K 5% 1/16 R479 1-216-839-11 METAL.CHIP 33K 5% 1/16W R536 1-216-828-11 METAL.CHIP 22K 5% 1/16W R536 1-216-828-11 METAL.CHIP 22K 5% 1/16W R536 1-216-828-11 METAL.CHIP 22K 5% 1/16W R536 1-216-828-11 METAL.CHIP 22K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R536 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R542 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R542 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R542 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R542 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R542 1-216-828-11 METAL.CHIP 56K 5% 1/16W R549 1-216-828-11 METAL.CHIP 56K 5% 1/16W R549 1-216-828-11 METAL.CHIP 56K 5% 1/16W R549 1-216-828-11 METAL.CHIP 56K 5% 1/16W R549 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R549 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R549 1-216-828-11 METAL.CHIP 4.7K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R549 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-216-828-11 METAL.CHIP 1 K 5% 1/16W R550 1-21	R473	1-216-825-11	METAL CHIP	2.2K	5%	1/16W		1-216-842-11	METAL CHIP			1/16W
R476 1-218-863-11 RES,CHIP 4.7K 0.50% 1/16W R533 1-216-829-11 METAL CHIP 3.9K 5% 1/16W R536 1-216-837-11 METAL CHIP 2.2K 5% 1/16W R536 1-216-847-11 METAL CHIP 2.2K 5% 1/16W R536 1-216-839-11 METAL CHIP 3.9K 5% 1/16W R536 1-216-839-11 METAL CHIP 3.9K 5% 1/16W R536 1-216-839-11 METAL CHIP 3.9K 5% 1/16W R536 1-216-839-11 METAL CHIP 3.9K 5% 1/16W R536 1-216-839-11 METAL CHIP 3.9K 5/16W R539 1-216-821-11 METAL CHIP 4.7K 5% 1/16W R539 1-216-821-11 METAL CHIP 4.7K 5% 1/16W R539 1-216-821-11 METAL CHIP 4.7K 5% 1/16W R539 1-216-821-11 METAL CHIP 1.5K 0.50% 1/16W R539 1-216-821-11 METAL CHIP 3.9K 1/16W R549 1-216-825-11 METAL CHIP 4.7K 5% 1/16W R549 1-216-825-11 METAL CHIP 3.9K 1/16W R559 1-216-823-11 METAL CHIP 3.7K 5% 1/16W R559 1-216-823-11 METAL CHIP 4.7K 5% 1/16W R559 1-216-823-11 METAL CHIP 4.7K 5% 1/16W R559 1-216-823-11 METAL CHIP 4.7K 5% 1/16W R559 1-216-823-11 METAL CHIP 0.95% 1/16W R559 1-216-823-11 METAL CHIP 4.7K 5% 1/16W R559 1-216-823-11 METAL CHIP 4.7K 5% 1/16W R559 1-216-823-11 METAL CHIP 4.7K 5% 1/16W R559 1-216-823-11 METAL CHIP 4.7K 5% 1/16W R559 1-21												
R476   1-218-863-11   RES,CHIP   4.7K   0.50%   1/16W   R54   1-216-821-11   METAL CHIP   150K   5%   1/16W   R54   1-216-821-11   METAL CHIP   150K   5%   1/16W   R54   1-216-821-11   METAL CHIP   150K   5%   1/16W   R54   1-216-821-11   METAL CHIP   2.2K   5%   1/16W   R54   1-216-821-11   METAL CHIP   150K   5%   1/16W   R54   1-216-821-11   METAL CHIP   150K   5%   1/16W   R54   1-216-821-11   METAL CHIP   150K   5%   1/16W   R54   1-216-821-11   METAL CHIP   1 K   0.50%   1/16W   R55   1-216-821-11   METAL CHIP   1 K   0.50%   1/16W   R55   1-216-821-11   METAL CHIP   1 K   0.50%   1/16W   R55   1-216-821-11   METAL CHIP   1 K   0.50%   1/16W   R55   1-216-821-11   METAL CHIP   1 K   0.50%   1/16W   R55   1-216-821-11   METAL CHIP   1 K   0.50%   1/16W   R55   1-216-821-11   METAL CHIP   1 K   0.50%   1/16W   R55   1-216-821-11   METAL CHIP   1 K   0.							B532	1-216-833-11	METAL CHIP	10K	5%	1/16W
R477   1-216-837-11   METAL CHIP   22K   5%   1/16W   R536   1-216-847-11   RES.CHIP   220   0.50%   1/16W   R538   1-216-847-11   RES.CHIP   220   0.50%   1/16W   R539   1-216-847-11   RES.CHIP   1/16W   R539   1-216-847-11   RES.CHIP   1/16W   R539   1-216-847-11   RES.CHIP   1/16W   R539   1-216-827-11   RES.CHIP   1/16W   R539   1/16W   R539   1/216-827-11   RES.CHIP   1/16W   R539   1/												1/16W
R478   1-216-842-11   METAL CHIP   56K   5%   1/16W   R479   1-216-839-11   METAL CHIP   200   0.50%   1/16W   R536   1-216-818-11   METAL CHIP   4.7K   5%   1/16W   R536   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R537   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R536   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R537   1-216-829-11   METAL CHIP   1/16W   R537   1-216-829-11   METAL CHIP   1/16W   R537   1-216-829-11   METAL CHIP   1/16W   R537   1-216-829-11   METAL CHIP   1/16W   R537   1-216-829-11   METAL CHIP   1/16W   R538   1-216-829-11   METAL CHIP   1/16W   R539   1-216-829-11   METAL CHIP   1/16W   R540   1-216-829-11   METAL CHI												1/16W
R479   1-216-839-11 METAL CHIP   56K   5%   1/16W   R490   1-218-831-11   RES.CHIP   220   0.50%   1/16W   R538   1-218-829-11 METAL CHIP   220   0.50%   1/16W   R538   1-218-829-11 METAL CHIP   1K   0.50%   1/16W   R548   1-218-831-11   RES.CHIP   220   0.50%   1/16W   R548   1-218-821-11   RES.CHIP   1 K   0.50%   1/16W   R548   1-218-821-11   RES.CHIP   1 K   0.50%   1/16W   R548   1-218-821-11   RES.CHIP   1 K   0.50%   1/16W   R548   1-218-821-11   RES.CHIP   1 K   0.50%   1/16W   R548   1-218-821-11   RES.CHIP   220   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   220   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   220   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   220   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   220   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   220   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   250   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   250   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   250   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   250   0.50%   1/16W   R549   1-218-821-11   RES.CHIP   150   0.50%   1/16W   R549   1-218-825-11   METAL CHIP   1.2K   5%   1/16W   R549   1-218-821-11   METAL CHIP   1.2K   5%   1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R550   1-216-	D411	1-210-057-11	WILIAL OTHE.	221	J 70	171000						
R480   1-218-83-11   RES.CHIP   220	D.470	1 010 040 11	METAL CLUD	ECV	E0/	1/16\4/						
R480   1-218-83-11   RES,CHIP   220   0.50%   1/16W   R537   1-216-829-11   METAL CHIP   1K   0.50%   1/16W   R482   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R540   1-218-837-11   RES,CHIP   1K   0.50%   1/16W   R540   1-218-837-11   RES,CHIP   1K   0.50%   1/16W   R540   1-218-837-11   RES,CHIP   1K   0.50%   1/16W   R540   1-218-837-11   RES,CHIP   1K   0.50%   1/16W   R540   1-218-837-11   RES,CHIP   1K   0.50%   1/16W   R541   1-218-837-11   RES,CHIP   1K   0.50%   1/16W   R541   1-218-837-11   RES,CHIP   220   0.50%   1/16W   R542   1-218-827-11   RES,CHIP   1K   5%   1/16W   R542   1-218-837-11   RES,CHIP   1K   5%   1/16W   R543   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R545   1-216-823-11   METAL CHIP   0.5%   1/16W   R549   1-218-837-11   RES,CHIP   220   0.50%   1/16W   R546   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R546   1-218-837-11   RES,CHIP   20   0.50%   1/16W   R546   1-216-823-11   METAL CHIP   0.5%   1/16W   R549   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R549   1-218-827-11   METAL CHIP   1K   5%   1/16W   R549   1-218-827-11   METAL CHIP   1K   5%   1/16W   R549   1-218-827-11   METAL CHIP   1K   5%   1/16W   R549   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R550   1-216-822-11   METAL CHIP   1K   5%   1/16W   R550   1-216-822-11   METAL CHIP   1K   5%   1/16W   R550   1-216-823-11   METAL CHIP   1K   5%   1/16W   R550   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823-11   METAL CHIP   1K   5%   1/16W   R551   1-216-823							noso	1-210-010-11	METAL CHIP	300	3 70	1/1044
R481   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R539   1-218-847-11   RES,CHIP   1K   0.50%   1/16W   R541   1-218-821-11   METAL CHIP   1K   0.50%   1/16W   R541   1-218-831-11   RES,CHIP   2.2K   5%   1/16W   R545   1-218-831-11   RES,CHIP   2.2K   5%   1/16W   R545   1-218-831-11   RES,CHIP   2.2K   5%   1/16W   R545   1-218-831-11   RES,CHIP   2.2K   5%   1/16W   R545   1-218-831-11   RES,CHIP   2.2K   5%   1/16W   R545   1-218-831-11   RES,CHIP   2.2K   5%   1/16W   R545   1-218-831-11   RES,CHIP   2.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R545   1-218-861-11   METAL CHIP   1.2K   5%   1/16W   R555   1-218-831-11   MET							D507	4 040 000 44	MATTAL OLUD	4 71/	F0/	4 (4 (5) 4)
R482   1-218-823-11   RES,CHIP   220   0.50%   1/16W   R540   1-218-835-11   RES,CHIP   1.1K   5%   1/16W   R484   1-218-825-11   METAL CHIP   2.2K   5%   1/16W   R541   1-218-873-11   RES,CHIP   1.2K   0.50%   1/16W   R485   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R543   1-218-823-11   METAL CHIP   1.K   5%   1/16W   R486   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R543   1-218-823-11   METAL CHIP   1.K   5%   1/16W   R543   1-218-821-11   METAL CHIP   1.K   5%   1/16W   R543   1-218-821-11   METAL CHIP   0.5%   1/16W   R549   1-218-821-11   METAL CHIP   1.K   5%   1/16W   R551   1-218-821-11   METAL CHIP   1.K   5%   1/16W   R551   1-218-821-11   METAL CHIP   1.K   5%   1/16W   R551   1-218-831-11   METAL CHIP   1.K   5%   1/16W   R551   1-218-821-11   METAL CHIP   1.K   5%   1/16W   R561   1-218-821-11   METAL CHIP   1.K   5%   1/16W   R561												
R483   1-216-825-11   METAL CHIP   2.2K   5%   1/16W   R541   1-218-873-11   RES,CHIP   12K   0.50%   1/16W   R455   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R545   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R545   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R545   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R545   1-218-831-11   METAL CHIP   1.5K   5%   1/16W   R545   1-218-831-11   METAL CHIP   1.5K   5%   1/16W   R545   1-218-831-11   METAL CHIP   0.5%   1/16W   R545   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R555   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R556   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R557   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R559   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R550   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R550   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R560   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R560   1-218-831-11   METAL CHIP   1.2K   5%   1/1												
R488 1-216-829-11 METAL CHIP 2.2K 5% 1/16W R484 1-216-829-11 METAL CHIP 2.2D 0.50% 1/16W R485 1-218-831-11 RES,CHIP 220 0.50% 1/16W R543 1-216-823-11 METAL CHIP 1 K 5% 1/16W R543 1-216-823-11 METAL CHIP 2.2D 0.50% 1/16W R543 1-216-823-11 METAL CHIP 0 5% 1/16W R543 1-216-823-11 METAL CHIP 0 5% 1/16W R543 1-216-823-11 METAL CHIP 0 5% 1/16W R543 1-216-823-11 METAL CHIP 0 5% 1/16W R543 1-216-823-11 METAL CHIP 0 5% 1/16W R543 1-216-823-11 METAL CHIP 0 5% 1/16W R543 1-216-823-11 METAL CHIP 0 5% 1/16W R545 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R549 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R555 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R555 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R555 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R555 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R555 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R559 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R559 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R559 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R559 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-823-11 METAL CHIP 1.2K 5% 1/16W R550 1-216-833-11 METAL CHIP 1.2K 5% 1/16	R482	1-218-831-11	RES,CHIP	220	0.50%	1/16W						
R484 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R485 1-218-831-11 RES,CHIP 220 0.50% 1/16W R486 1-218-831-11 RES,CHIP 220 0.50% 1/16W R487 1-218-831-11 RES,CHIP 220 0.50% 1/16W R488 1-218-827-11 RES,CHIP 220 0.50% 1/16W R489 1-216-827-11 RES,CHIP 150 0.50% 1/16W R489 1-216-837-11 METAL CHIP 22K 5% 1/16W R489 1-216-837-11 METAL CHIP 22K 5% 1/16W R490 1-218-827-11 RES,CHIP 56K 5% 1/16W R491 1-216-842-11 METAL CHIP 56K 5% 1/16W R491 1-216-842-11 METAL CHIP 56K 5% 1/16W R492 1-216-839-11 METAL CHIP 33K 5% 1/16W R493 1-218-827-11 RES,CHIP 150 0.50% 1/16W R494 1-218-827-11 RES,CHIP 150 0.50% 1/16W R495 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R496 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R497 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R498 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R497 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R498 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K												1/16W
R485         1-218-831-11         RES,CHIP         220         0.50% 1/16W         R542         1-216-823-11         METAL CHIP         1.5K         5% 1/16W           R487         1-218-831-11         RES,CHIP         220         0.50% 1/16W         R543         1-216-821-11         METAL CHIP         0         5% 1/16W           R487         1-218-837-11         RES,CHIP         220         0.50% 1/16W         R545         1-216-864-11         METAL CHIP         0         5% 1/16W           R489         1-216-827-11         RES,CHIP         150         0.50% 1/16W         R548         1-216-821-11         METAL CHIP         1.2K         5% 1/16W           R490         1-218-827-11         RES,CHIP         150         0.50% 1/16W         R549         1-216-821-11         METAL CHIP         1K         5% 1/16W           R491         1-216-827-11         RES,CHIP         150         0.50% 1/16W         R549         1-216-821-11         METAL CHIP         1K         5% 1/16W           R492         1-216-829-11         METAL CHIP         3K         5% 1/16W         R550         1-216-821-11         METAL CHIP         1K         5% 1/16W           R492         1-216-829-11         METAL CHIP         3K         5% 1/16W <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>R541</td> <td>1-218-873-11</td> <td>RES,CHIP</td> <td>12K</td> <td>0.50%</td> <td>1/16W</td>							R541	1-218-873-11	RES,CHIP	12K	0.50%	1/16W
R486   1-218-831-11   RES.CHIP   220   0.50% 1/16W   R545   1-216-821-11   METAL CHIP   0   5% 1/16W   R545   1-216-821-11   METAL CHIP   0   5% 1/16W   R546   1-216-822-11   METAL CHIP   0   5% 1/16W   R547   1-216-822-11   METAL CHIP   0   5% 1/16W   R548   1-216-822-11   METAL CHIP   0   5% 1/16W   R549   1-216-822-11   METAL CHIP   1.2K   5% 1/16W   R549   1-216-822-11   METAL CHIP   1.2K   5% 1/16W   R549   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R549   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-823-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-823-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-829-11   METAL CHIP   1.2K   5%												
R487   1-218-831-11   RES,CHIP   220   0.50% 1/16W   R546   1-216-864-11   METAL CHIP   0   5% 1/16W   R548   1-218-827-11   RES,CHIP   150   0.50% 1/16W   R547   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R549   1-218-827-11   RES,CHIP   150   0.50% 1/16W   R549   1-218-827-11   METAL CHIP   1.2K   5% 1/16W   R549   1-218-827-11   METAL CHIP   1.2K   5% 1/16W   R549   1-218-827-11   METAL CHIP   1.2K   5% 1/16W   R549   1-218-827-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL CHIP   0   5% 1/16W   R551   1-216-821-11   METAL	R485	1-218-831-11	RES,CHIP	220		1/16W						1/16W
R488 1-218-827-11 RES,CHIP 150 0.50% 1/16W R489 1-216-837-11 METAL CHIP 22K 5% 1/16W R490 1-218-827-11 RES,CHIP 150 0.50% 1/16W R491 1-216-842-11 METAL CHIP 1K 5% 1/16W R491 1-216-842-11 METAL CHIP 56K 5% 1/16W R492 1-216-839-11 METAL CHIP 33K 5% 1/16W R493 1-218-827-11 RES,CHIP 150 0.50% 1/16W R494 1-218-827-11 RES,CHIP 150 0.50% 1/16W R494 1-218-827-11 RES,CHIP 150 0.50% 1/16W R495 1-216-829-11 METAL CHIP 1K 5% 1/16' R496 1-216-829-11 METAL CHIP 1C 5% 1/16W R497 1-216-829-11 METAL CHIP 1C 5% 1/16W R498 1-216-829-11 METAL CHIP 1C 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R501 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R501 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R501 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R502 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R504 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R505 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R507 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 5% 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 5% 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-829-11 METAL CHIP 1C 4.7K 5% 1/16W R509 1-216-8	R486	1-218-831-11	RES,CHIP	220	0.50%	1/16W		1-216-821-11	METAL CHIP	1K	5%	1/16W
R488   1-218-827-11   RES,CHIP   22K   5%   1/16W   R547   1-216-822-11   METAL CHIP   1.2K   5%   1/16W   (DSR-40P)   R549   1-218-827-11   RES,CHIP   56K   5%   1/16W   R549   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R549   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R549   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R549   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R549   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R550   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R552   1-216-821-11   METAL CHIP   1.2K   5%   1/16W   R553   1-218-831-11   METAL CHIP   1.2K   5%   1/16W   R554   1-216-833-11   METAL CHIP   1.2K   5%   1/16W   R555   1-216-833-11   METAL CHIP   1.2K   5%   1/16W   R555   1-216-833-11   METAL CHIP   1.2K   5%   1/16W   R555   1-216-833-11   METAL CHIP   1.2K   5%   1/16W   R556   1-216-833-11   METAL CHIP   1.2K   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R558   1-218-831-11   RES,CHIP   2.2W   0.50%   1/16W   R558   1-218-831-11   RES,CHIP   2.2W   0.50%   1/16W   R558   1-218-831-11   RES,CHIP   2.2W   0.50%   1/16W   R559   1-218-831-11   RES,CHIP   2.2W   0.50%   1/16W   R559   1-218-831-11   RES,CHIP   2.2W   0.50%   1/16W   R550   1-216-844-11   METAL CHIP   0   5%   1/16W   R550   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   0   0   0   0   0   0   0   0	R487	1-218-831-11	RES,CHIP	220	0.50%	1/16W	R545	1-216-864-11	METAL CHIP	0	5%	1/16W
R489   1-216-837-11   METAL CHIP   22K   5%   1/16W   (DSR-40P)   R549   1-218-825-11   RES,CHIP   150   0.50%   1/16W   R550   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R552   1-216-822-11   METAL CHIP   1.2K   5%   1/16W   R552   1-216-822-11   METAL CHIP   1.2K   5%   1/16W   R553   1-218-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-823-11   METAL CHIP   10K   5%   1/16W   R555   1-216-823-11   METAL CHIP   10K   5%   1/16W   R555   1-216-823-11   METAL CHIP   10K   5%   1/16W   R556   1-216-823-11   METAL CHIP   0   5%   1/16W   R557   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R558   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R559   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R559   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R559   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-218-864-11   METAL CHIP   0   5%   1/16W   R500   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-218-864-11   METAL CHIP   0   5%   1/16W   R501   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-218-864-11   METAL CHIP   0   5%   1/16W   R501   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R564   1-218-833-11   METAL CHIP   0   5%   1/16W   R501   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R564   1-218-829-11   METAL CHIP   0   5%   1/16W   R565   1-218-829-11   METAL CHIP   0   5%   1/16W   R566   1-218-829-11   METAL CHIP   0   5%   1/16W   R567   1-218-829-11   METAL CHIP   0   5%   1/16W   R568   1-218-829-11   METAL CHIP   0   5%   1/16W   R569   1-218-829-11   METAL CHIP   0   0.50%   1/16W   R569   1-218-829-11   METAL CHIP   0   0.50%   1/16W   R569   1-218-829-11   METAL CHIP   0   0.50%   1/							R546	1-216-864-11	METAL CHIP	. 0	5%	1/16W
R489   1-216-837-11   METAL CHIP   22K   5%   1/16W   (DSR-40P)   R549   1-218-825-11   RES,CHIP   150   0.50%   1/16W   R550   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R552   1-216-822-11   METAL CHIP   1.2K   5%   1/16W   R552   1-216-822-11   METAL CHIP   1.2K   5%   1/16W   R553   1-218-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-823-11   METAL CHIP   10K   5%   1/16W   R555   1-216-823-11   METAL CHIP   10K   5%   1/16W   R555   1-216-823-11   METAL CHIP   10K   5%   1/16W   R556   1-216-823-11   METAL CHIP   0   5%   1/16W   R557   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R558   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R559   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R559   1-218-831-11   RES,CHIP   20   0.50%   1/16W   R559   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-218-864-11   METAL CHIP   0   5%   1/16W   R500   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-218-864-11   METAL CHIP   0   5%   1/16W   R501   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-218-864-11   METAL CHIP   0   5%   1/16W   R501   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R564   1-218-833-11   METAL CHIP   0   5%   1/16W   R501   1-218-829-11   METAL CHIP   4.7K   5%   1/16W   R564   1-218-829-11   METAL CHIP   0   5%   1/16W   R565   1-218-829-11   METAL CHIP   0   5%   1/16W   R566   1-218-829-11   METAL CHIP   0   5%   1/16W   R567   1-218-829-11   METAL CHIP   0   5%   1/16W   R568   1-218-829-11   METAL CHIP   0   5%   1/16W   R569   1-218-829-11   METAL CHIP   0   0.50%   1/16W   R569   1-218-829-11   METAL CHIP   0   0.50%   1/16W   R569   1-218-829-11   METAL CHIP   0   0.50%   1/	R488	1-218-827-11	RES,CHIP	150	0.50%	1/16W	R547	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R490   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R549   1-218-851-11   RES,CHIP   1   1   1   1   1   1   1   1   1		1-216-837-11	METAL CHIP		5%	1/16W						
R490   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R550   1-218-855-11   RES,CHIP   2.2K   0.50%   1/16W   (DSR-40P)   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R552   1-216-821-11   METAL CHIP   1K   5%   1/16W   R552   1-216-821-11   METAL CHIP   1K   5%   1/16W   R552   1-216-821-11   METAL CHIP   1K   5%   1/16W   R553   1-218-821-11   METAL CHIP   1.2K   5%   1/16W   R554   1-216-821-11   METAL CHIP   10K   5%   1/16W   R554   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R556   1-216-833-11   METAL CHIP   10K   5%   1/16W   R556   1-216-834-11   METAL CHIP   0.55%   1/16W   R556   1-216-834-11   METAL CHIP   0.55%   1/16W   R556   1-216-864-11   METAL CHIP   0.55%   1/16W   R556   1-216-864-11   METAL CHIP   0.55%   1/16W   R559   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-216-831-11   RES,CHIP   220   0.50%   1/16W   R559   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   0.59%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   0.59%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP						DSR-40P)	R548	1-216-821-11	METAL CHIP	1K	5%	1/16W
R491   1-216-842-11   METAL CHIP   56K   5%   1/16W   R550   1-216-821-11   METAL CHIP   1K   5%   1/16W   R551   1-216-821-11   METAL CHIP   1K   5%   1/16W   R552   1-216-821-11   METAL CHIP   1K   5%   1/16W   R553   1-216-821-11   METAL CHIP   1K   5%   1/16W   R553   1-218-827-11   RES, CHIP   150   0.50%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R554   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R559   1-216-864-11   METAL CHIP   0   5%   1/16W   R559   1-216-864-11   METAL CHIP   0   5%   1/16W   R559   1-216-864-11   METAL CHIP   0   5%   1/16W   R559   1-216-864-11   METAL CHIP   0   5%   1/16W   R550   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-216-864-11   METAL CHIP   0   5%   1/16W   R550   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R550   1-216-864-11   METAL CHIP   0   5%   1/16W   R550   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R560   1-216-829-11   METAL CHIP   2.2K   5%   1/16W   R566   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-82	R490	1-218-827-11	RES.CHIP	150								1/16W
R492   1-216-839-11   METAL CHIP   33K   5%   1/16W   R552   1-216-822-11   METAL CHIP   1.2K   5%   1/16W   R494   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R554   1-216-833-11   METAL CHIP   10K   5%   1/16W   R494   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-864-11   METAL CHIP   10K   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R550   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R550   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R564   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R564   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R564   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R564   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R564   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R566   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R566   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R566   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   RES,CHIP   5.00%   1/16W   R570   1-216-823-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-826-11   METAL CHIP   4.7K   5%   1/16W   R570   1-216-833-11   METAL CHIP   4.7K   5%												1/16W
R492 1-216-839-11 METAL CHIP 33K 5% 1/16W (DSR-40P) (DSR-40P) R553 1-218-863-11 RES,CHIP 4.7K 0.50% 1/16W R494 1-218-827-11 RES,CHIP 150 0.50% 1/16W R554 1-216-833-11 METAL CHIP 10K 5% 1/16W R494 1-218-829-11 METAL CHIP 4.7K 5% 1/16W R555 1-216-833-11 METAL CHIP 0 5% 1/16W R495 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R555 1-216-864-11 METAL CHIP 0 5% 1/16W R497 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R497 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R559 1-218-831-11 RES,CHIP 220 0.50% 1/16W R498 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R559 1-218-831-11 RES,CHIP 220 0.50% 1/16W R550 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R560 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R561 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R561 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R561 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R561 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R561 1-216-829-11 METAL CHIP 1 METAL CHI	11107	1 210 0 12 11	WE ME OITH	0011								1/16W
R492   1-216-839-11   METAL CHIP   33K   5%   1/16W   (DSR-40P)   (DSR-40P)   (DSR-40P)   (DSR-40P)   (R494   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R554   1-216-833-11   METAL CHIP   10K   5%   1/16W   R494   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R556   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R599   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R563   1-216-829-11   METAL CHIP   1/16W   R564   1-216-829-11   METAL CHIP   1/16W   R566   1-216-829-11   METAL CHIP   1/16W   R566   1-216-829-11   METAL CHIP   1/16W   R566   1-216-829-11   METAL CHIP   1/16W   R566   1-216-829-11   METAL CHIP   1/16W   R566   1-216-829-11   METAL CHIP   1/16W   R567   1-216-829-11   METAL CHIP   1/16W   R568   1-216-829-11   METAL CHIP   1/16W   R569   1-216-829-11   METAL CHIP   1/16W   R569   1-216-829-11   METAL CHIP   1/16W   R569   1-216-833-11   METAL CHIP   1/16W   R560					, ,	0011 401 )						
R493   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R554   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R558   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R559   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   1K   5%   1/16W   R560   1-216-829-11   METAL CHIP   1K   5%   1/16W   R560   1-216-829-11   METAL CHIP   1K   5%   1/16W   R560   1-216-825-11   METAL CHIP   1K   5%   1/16W   R560   1-216-825-11   METAL CHIP   1K   5%   1/16W   R560   1-216-825-11   METAL CHIP   1.5K   5%   1/16W   R560   1-216-825-11   RES,CHIP   1.5W   0.50%   1/16W   R570   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-835-11   RES,CHIP   1.5W   0.50%   1/16W   R570   1-216-833-11   METAL CHIP   10K   5%   1/16W   R560   1-218-857-11   RES,CHIP   1.5W   0.50%   1/16W   R570   1-216-833-11   METAL CHIP   10K   5%   1/16W   R560   1-218-857-11   RES,CHIP   1.5W   0.50%   1/16W   R571   1-216-833-11   METAL CHIP   10K   5%   1/16W   R571   1-216-833-11   METAL CHIP   10K   5%   1/16W   R571	D402	1-216-830-11	METAL CHID	33K	5%	1/16\\	11002	1 210 022 11	WEIAL OITS	1.21	0 70	171000
R493   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-833-11   METAL CHIP   10K   5%   1/16W   R555   1-216-823-11   METAL CHIP   0   5%   1/16W   R556   1-216-829-11   METAL CHIP   0   5%   1/16W   R556   1-216-829-11   METAL CHIP   0   5%   1/16W   R557   1-216-829-11   METAL CHIP   0   5%   1/16W   R557   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R558   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R499   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R559   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   0   5%   1/16W   R561   1-216-829-11   METAL CHIP   0   5%   1/16W   R561   1-218-857-11   RES,CHIP   2.7K   0.50%   1/16W   R563   1-216-829-11   METAL CHIP   0   5%   1/16W   R563   1-216-829-11   METAL CHIP   0   5%   1/16W   R563   1-216-829-11   METAL CHIP   1/16W   R564   1-216-823-11   METAL CHIP   1/16W   R566   1-216-823-11   METAL CHIP   1/16W   R568   1-216-829-11   METAL CHIP   1/16W   R569   1-216-823-11   METAL CHIP   1/16W   R560   1-216-823-11   RES,CHIP   1/16W   R560   1-216-823-11   METAL CHIP   1/16W   R560   1-216-823-11   RES,CHIP   1/16W	11432	1-210-003-11	WILIAL OITH	JUN			B553	1-218-863-11	BES CHIP	17K	0.50%	1/16///
R494   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R555   1-216-833-11   METAL CHIP   0   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R557   1-216-864-11   METAL CHIP   0   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R550   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R564   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R564   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R564   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R566   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R567   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R569   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R570   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R570   1-216-829-11   RES,CHIP   150   0.50%   1/16W   R571   1-216-833-11   METAL CHIP   10K   5%   1/16W   R571   1-218-857-11   RES,CHIP   150   0.50%   1/16W   R573   1-216-833-11   METAL CHIP   10K   5%   1/16W   R571   1-218-851-11   RES,CHIP   1.5K   0.50%   1/16W   R573   1-216-833-11   METAL CHIP   10K   5%   1/16W   R571   1-216-826-11   METAL CHIP   33K   5%   1/16W   R571   1-216-844-11   METAL CHIP   33K   5%   1/16W   R571   1-216-844-11   METAL CHIP   33K   5%   1/	D 400	1 010 007 11	DEC CUID	150	,	,						
R495   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R556   1-216-864-11   METAL CHIP   0   5%   1/16W   R5497   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R5498   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R559   1-218-831-11   RES,CHIP   220   0.50%   1/16W   R550   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R560   1-216-864-11   METAL CHIP   0   5%   1/16W   R560   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R561   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-864-11   METAL CHIP   0   5%   1/16W   R562   1-216-829-11   METAL CHIP   0   5%   1/16W   R563   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R564   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R566   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R566   1-216-823-11   METAL CHIP   1 K   5%   1/16W   R566   1-216-823-11   METAL CHIP   1 K   5%   1/16W   R566   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R568   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R569   1-216-829-11   METAL CHIP   1 K   5%   1/16W   R570   1-216-823-11   METAL CHIP   1 K   5%   1/16W   R570   1-216-823-11   METAL CHIP   1 K   5%   1/16W   R570   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R570   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R571   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R571   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R571   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R571   1-216-833-11   METAL CHIP   1 K   5%   1/16W   R571   1-216-833-11   METAL CHIP   1 K   5%   1/16												
R496 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R497 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R498 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R559 1-218-831-11 RES,CHIP 220 0.50% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R560 1-216-864-11 METAL CHIP 0 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R560 1-216-864-11 METAL CHIP 0 5% 1/16W R501 1-216-869-11 RES,CHIP 2.7K 0.50% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R502 1-218-867-11 RES,CHIP 2.7K 0.50% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R504 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R564 1-216-833-11 METAL CHIP 10K 5% 1/16W R504 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R567 1-216-829-11 METAL CHIP 1.5K 5% 1/16W R506 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-216-829-11 RES,CHIP 3.3K 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R509 1-218-867-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-857-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R511 1-218-851-11 RES,CHIP 2.7K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R511 1-218-851-11 RES,CHIP 2.7K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R511 1-218-851-11 RES,CHIP 2.7K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R511 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R511 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 33K 5% 1/16W R511 1-216-826-11 METAL CHIP 2.7K 5												
R496         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R558         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R558         1-218-831-11         RES,CHIP         220         0.50%         1/16I           R498         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R559         1-218-831-11         RES,CHIP         220         0.50%         1/16I           R499         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R560         1-216-864-11         METAL CHIP         0         5%         1/16I           R500         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R561         1-216-864-11         METAL CHIP         0         5%         1/16V           R501         1-218-857-11         RES,CHIP         2.7K         0.50%         1/16W         R563         1-216-821-11         METAL CHIP         1K         5%         1/16W           R502         1-218-867-11         RES,CHIP         4.7K         5%         1/16W         R564         1-216-821-11         METAL CHIP         1K         5%         1/16W           R503         1-216-825-11<	K495	1-216-829-11	METAL CHIP	4.7K	5%	1/1000						
R497         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R558         1-218-831-11         RES,CHIP         220         0.50%         1/16W           R498         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R559         1-218-831-11         RES,CHIP         220         0.50%         1/16W           R499         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R560         1-216-864-11         METAL CHIP         0.5%         1/16W           R500         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R561         1-216-864-11         METAL CHIP         0.5%         1/16W           R501         1-218-857-11         RES,CHIP         2.7K         0.50%         1/16W         R563         1-216-824-11         METAL CHIP         0.5%         1/16W           R502         1-218-867-11         RES,CHIP         4.7K         5%         1/16W         R563         1-216-821-11         METAL CHIP         1K         5%         1/16W           R503         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R564         1-216-823-11         METAL CHIP         1K				4			H557	1-216-864-11	WIETAL CHIP	U	5%	1/1000
R498         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R559         1-218-831-11         RES,CHIP         220         0.50%         1/16V           R499         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R560         1-216-864-11         METAL CHIP         0         5%         1/16V           R500         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R561         1-216-864-11         METAL CHIP         0         5%         1/16V           R501         1-218-857-11         RES,CHIP         2.7K         0.50%         1/16W         R562         1-216-864-11         METAL CHIP         0         5%         1/16V           R502         1-218-867-11         RES,CHIP         6.8K         0.50%         1/16W         R563         1-216-821-11         METAL CHIP         1K         5%         1/16V           R503         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R564         1-216-833-11         METAL CHIP         1K         5%         1/16V           R504         1-216-825-11         METAL CHIP         2.2K         5%         1/16W         R567         1-216-823-11<							5450		DE0 0111D		0.500/	44004
R499 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R560 1-216-864-11 METAL CHIP 0 5% 1/16W R500 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R561 1-216-864-11 METAL CHIP 0 5% 1/16W R562 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R562 1-216-864-11 METAL CHIP 0 5% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R563 1-216-821-11 METAL CHIP 1K 5% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R564 1-216-833-11 METAL CHIP 1K 5% 1/16W R564 1-216-821-11 METAL CHIP 1K 5% 1/16W R566 1-216-821-11 METAL CHIP 1K 5% 1/16W R566 1-216-821-11 METAL CHIP 1K 5% 1/16W R566 1-216-829-11 METAL CHIP 1.5K 5% 1/16W R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES,CHIP 6.8K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES,CHIP 6.8K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 10K 5% 1/16W R571 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R511 1-218-851-11 RES,CHIP 2.7K 5% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-												1/16W
R500         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R561         1-216-864-11         METAL CHIP         0         5%         1/16W           R501         1-218-857-11         RES, CHIP         2.7K         0.50%         1/16W         R562         1-216-864-11         METAL CHIP         0         5%         1/16W           R502         1-218-867-11         RES, CHIP         6.8K         0.50%         1/16W         R563         1-216-821-11         METAL CHIP         1K         5%         1/16W           R503         1-216-829-11         METAL CHIP         4.7K         5%         1/16W         R564         1-216-821-11         METAL CHIP         10K         5%         1/16W           R504         1-216-825-11         METAL CHIP         2.2K         5%         1/16W         R566         1-216-823-11         METAL CHIP         1.5K         5%         1/16W           R505         1-216-825-11         METAL CHIP         2.2K         5%         1/16W         R568         1-216-829-11         METAL CHIP         4.7K         5%         1/16W           R506         1-216-825-11         METAL CHIP         2.2K         5%         1/16W         R569         1-216-8												1/16W
R501 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W (DSR-40P) R504 1-216-825-11 METAL CHIP 2.2K 5% 1/16W (DSR-40P) R506 1-216-829-11 METAL CHIP 4.7K 5% 1/16W (DSR-40P) R506 1-216-829-11 METAL CHIP 4.7K 5% 1/16W (DSR-40P) R506 1-216-829-11 METAL CHIP 4.7K 5% 1/16W (DSR-40P) R508 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R508 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R509 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 150 0.50% 1/16W R570 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-857-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 150 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-857-11 RES,CHIP 150 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES,CHIP 150 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES,CHIP 1.5K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R573 1-216-839-11 METAL CHIP 33K 5% 1/16W R571 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R572 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16W R571 1-216-826-11 METAL CHIP 33K 5% 1/16	R499		METAL CHIP	4.7K	5%	1/16W				0		1/16W
R501 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R502 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W (DSR-40P) R566 1-216-821-11 METAL CHIP 1 K 5% 1/16W R504 1-216-825-11 METAL CHIP 2.2K 5% 1/16W (DSR-40P) R566 1-216-823-11 METAL CHIP 1.5K 5% 1/16W R505 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R507 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R509 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 150 0.50% 1/16W R570 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 150 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-857-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R510 1-218-857-11 RES,CHIP 1.5K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R511 1-218-851-11 RES,CHIP 2.7K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R511 1-218-851-11 RES,CHIP 2.7K 5% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP	R500	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	R561	1-216-864-11	METAL CHIP	0	5%	1/16W
R502 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R563 1-216-821-11 METAL CHIP 1K 5% 1/16W R563 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R564 1-216-833-11 METAL CHIP 10K 5% 1/16W R564 1-216-823-11 METAL CHIP 1 K 5% 1/16W R566 1-216-821-11 METAL CHIP 1 K 5% 1/16W R566 1-216-823-11 METAL CHIP 1 K 5% 1/16W R567 1-216-823-11 METAL CHIP 1 K 5% 1/16W R568 1-216-829-11 METAL CHIP 1 K 5% 1/16W R506 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R510 1-218-857-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-8							R562	1-216-864-11	METAL CHIP	0	5%	1/16W
R502 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R563 1-216-821-11 METAL CHIP 1K 5% 1/16W R563 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R564 1-216-833-11 METAL CHIP 10K 5% 1/16W R564 1-216-823-11 METAL CHIP 1 K 5% 1/16W R566 1-216-821-11 METAL CHIP 1 K 5% 1/16W R566 1-216-823-11 METAL CHIP 1 K 5% 1/16W R567 1-216-823-11 METAL CHIP 1 K 5% 1/16W R568 1-216-829-11 METAL CHIP 1 K 5% 1/16W R506 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R510 1-218-857-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-8	R501	1-218-857-11	RES,CHIP	2.7K	0.50%	1/16W	,					
R503 1-216-829-11 METAL CHIP 4.7K 5% 1/16W (DSR-40P) R566 1-216-821-11 METAL CHIP 1 K 5% 1/16W (DSR-40P) R566 1-216-821-11 METAL CHIP 1 K 5% 1/16W (DSR-40P) R568 1-216-823-11 METAL CHIP 1.5K 5% 1/16W (DSR-40P) R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R566 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES, CHIP 3.3K 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R507 1-218-827-11 RES, CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 4.7K 5% 1/16W R508 1-218-827-11 RES, CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES, CHIP 150 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES, CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES, CHIP 1.5K 0.50% 1/16W R573 1-216-839-11 METAL CHIP 10K 5% 1/16W R511 1-218-851-11 RES, CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W							R563	1-216-821-11	METAL CHIP	1K	5%	1/16W
R504   1-216-825-11   METAL CHIP   2.2K   5%   1/16W   R566   1-216-823-11   METAL CHIP   1.5K   5%   1/16W   R567   1-216-823-11   METAL CHIP   1.5K   5%   1/16W   R568   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R506   1-218-859-11   RES,CHIP   3.3K   0.50%   1/16W   R570   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R507   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R571   1-216-829-11   METAL CHIP   4.7K   5%   1/16W   R508   1-218-827-11   RES,CHIP   150   0.50%   1/16W   R571   1-216-833-11   METAL CHIP   10K   5%   1/16W   R509   1-218-867-11   RES,CHIP   6.8K   0.50%   1/16W   R573   1-216-833-11   METAL CHIP   10K   5%   1/16W   R573   1-216-833-11   METAL CHIP   10K   5%   1/16W   R571   1-216-833-11   METAL CHIP   10K   5%   1/16W   R573   1-216-833-11   METAL CHIP   10K   5%   1/16W   R571   1-218-857-11   RES,CHIP   1.5K   0.50%   1/16W   R575   1-216-839-11   METAL CHIP   33K   5%   1/16W   R575   1-216-826-11   METAL CHIP   33K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP   82K   5%   1/16W   R576   1-216-844-11   METAL CHIP												1/16W
R504 1-216-825-11 METAL CHIP 2.2K 5% 1/16W (DSR-40P) R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 150 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES,CHIP 1.5K 0.50% 1/16W R573 1-216-842-11 METAL CHIP 56K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W	11000	1 210 020 11	MEIAE OIM									
(DSR-40P) R568 1-216-829-11 METAL CHIP 4.7K 5% 1/16V R505 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R569 1-216-829-11 METAL CHIP 4.7K 5% 1/16V R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16V R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16V R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16V R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16V R510 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R574 1-216-842-11 METAL CHIP 56K 5% 1/16V R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16V R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W	P504	1-216-825-11	METAL CHIP	2 2K								
R505 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R569 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R506 1-218-859-11 RES,CHIP 3.3K 0.50% 1/16W R570 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R507 1-218-827-11 RES,CHIP 150 0.50% 1/16W R571 1-216-833-11 METAL CHIP 10K 5% 1/16W R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R571 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R574 1-216-842-11 METAL CHIP 56K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W	nou <del>1</del>	1-210-025-11	METAL OTH	2.21								
R506         1-218-859-11         RES,CHIP         3.3K         0.50%         1/16W         R570         1-216-829-11         METAL CHIP         4.7K         5%         1/16W           R507         1-218-827-11         RES,CHIP         150         0.50%         1/16W         R571         1-216-833-11         METAL CHIP         10K         5%         1/16W           R508         1-218-827-11         RES,CHIP         150         0.50%         1/16W         R572         1-216-833-11         METAL CHIP         10K         5%         1/16W           R509         1-218-867-11         RES,CHIP         6.8K         0.50%         1/16W         R573         1-216-833-11         METAL CHIP         10K         5%         1/16W           R510         1-218-857-11         RES,CHIP         2.7K         0.50%         1/16W         R574         1-216-842-11         METAL CHIP         56K         5%         1/16W           R511         1-218-851-11         RES,CHIP         1.5K         0.50%         1/16W         R575         1-216-839-11         METAL CHIP         33K         5%         1/16W           R512         1-216-826-11         METAL CHIP         2.7K         5%         1/16W         R575         1-2			·		(	DON-40F)	N300	1-210-029-11	WEIAL GITT	4.71	J /0	17 1 0 0 0
R506         1-218-859-11         RES,CHIP         3.3K         0.50%         1/16W         R570         1-216-829-11         METAL CHIP         4.7K         5%         1/16W           R507         1-218-827-11         RES,CHIP         150         0.50%         1/16W         R571         1-216-833-11         METAL CHIP         10K         5%         1/16W           R508         1-218-827-11         RES,CHIP         150         0.50%         1/16W         R572         1-216-833-11         METAL CHIP         10K         5%         1/16W           R509         1-218-867-11         RES,CHIP         6.8K         0.50%         1/16W         R573         1-216-833-11         METAL CHIP         10K         5%         1/16W           R510         1-218-857-11         RES,CHIP         2.7K         0.50%         1/16W         R574         1-216-842-11         METAL CHIP         56K         5%         1/16W           R511         1-218-851-11         RES,CHIP         1.5K         0.50%         1/16W         R575         1-216-839-11         METAL CHIP         33K         5%         1/16W           R512         1-216-826-11         METAL CHIP         2.7K         5%         1/16W         R575         1-2	DEVE	1_016_005_11	METAL CHID	2 24	50/	1/16\\	REGO	1-216-820-11	WETAI CHID	A 71	50/	1/16W/
R507       1-218-827-11       RES,CHIP       150       0.50%       1/16W       R571       1-216-833-11       METAL CHIP       10K       5%       1/16W         R508       1-218-827-11       RES,CHIP       150       0.50%       1/16W       R572       1-216-833-11       METAL CHIP       10K       5%       1/16W         R509       1-218-867-11       RES,CHIP       6.8K       0.50%       1/16W       R573       1-216-833-11       METAL CHIP       10K       5%       1/16W         R510       1-218-857-11       RES,CHIP       2.7K       0.50%       1/16W       R574       1-216-842-11       METAL CHIP       56K       5%       1/16W         R511       1-218-851-11       RES,CHIP       1.5K       0.50%       1/16W       R575       1-216-839-11       METAL CHIP       33K       5%       1/16W         R512       1-216-826-11       METAL CHIP       2.7K       5%       1/16W       R575       1-216-839-11       METAL CHIP       33K       5%       1/16W												
R508 1-218-827-11 RES,CHIP 150 0.50% 1/16W R572 1-216-833-11 METAL CHIP 10K 5% 1/16W R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R570 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R574 1-216-842-11 METAL CHIP 56K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W												
R509 1-218-867-11 RES,CHIP 6.8K 0.50% 1/16W R573 1-216-833-11 METAL CHIP 10K 5% 1/16W R510 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R574 1-216-842-11 METAL CHIP 56K 5% 1/16W R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W												
R510 1-218-857-11 RES,CHIP 2.7K 0.50% 1/16W R574 1-216-842-11 METAL CHIP 56K 5% 1/16V R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16V R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16V												
R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W	R509	1-218-867-11	RES,CHIP	6.8K	0.50%	1/16W	R573	1-216-833-11	METAL CHIP	10K	5%	1/16W
R511 1-218-851-11 RES,CHIP 1.5K 0.50% 1/16W R575 1-216-839-11 METAL CHIP 33K 5% 1/16W R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16W			BBB 5:115			444					·	
R512 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R576 1-216-844-11 METAL CHIP 82K 5% 1/16V												1/16W
												1/16W
R514 1-216-825-11 METAL CHIP 2.2K 5% 1/16W   R577 1-216-839-11 METAL CHIP 33K 5% 1/16V												1/16W
	R514	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R577	1-216-839-11	METAL CHIP	33K	5%	1/16W

R	ef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
	R578	1-216-842-11	METAL CHIP	56K	5%	1/16W	R674	1-216-864-11		0	5%	1/16W
	11370	1-210-042-11	WEIAL OIII	JUK	J /0	1/1044	11074	1-210-004-11	WEINE OIM	U	3 70	1/10//
	R579	1-216-840-11	METAL CHIP	39K	5%	1/16W	R675	1-216-864-11	METAL CHIP	0	5%	1/16W
						(DSR-40)	R676	1-216-864-11	METAL CHIP	0	5%	1/16W
	R579	1-216-839-11	METAL CHIP	33K	5%	1/16W	R677	1-216-833-11		10K	5%	1/16W
						(DSR-40P)	R678	1-216-833-11		10K	5%	1/16W
	R580	1-216-837-11	METAL CHIP	22K	5%	1/16W	R852	1-216-864-11	METAL CHIP	0	5%	1/16W
	R581	1-216-837-11	METAL CHID	22K	5%	1/16W	R853	1-216-864-11	METAL CHID	0	5%	1/16W
	R582	1-216-837-11		22K 22K	5%	1/16W	R854	1-216-864-11		0	5%	1/16W
	R584			0	5%	1/16W	R855	1-216-864-11		Ŏ	5%	1/16W
	R585	1-216-825-11		2.2K	5%	1/16W	R856	1-216-864-11	METAL CHIP	0	5%	1/16W
	R586	1-218-863-11	RES,CHIP	4.7K	0.50%	1/16W	R857	1-216-166-00	RES,CHIP	47	5%	1/8W
												4 (014)
	R591	1-218-831-11		220	0.50%	1/16W 1/16W	R858 R859	1-216-166-00 1-216-801-11		47 22	5% 5%	1/8W 1/16W
	R592 R601	1-216-864-11 1-216-841-11		47K	5% 5%	1/16W	R860	1-216-841-11		47K	5%	1/16W
	R602	1-216-841-11		47K	5%	1/16W	R861	1-216-864-11		0	5%	1/16W
	R603	1-216-813-11		220	5%	1/16W	1,001	. 2.0 00			0,0	(DSR-40P)
	R604	1-216-849-11	METAL CHIP	220K	5%	1/16W	R862	1-216-821-11		1K	5%	1/16W
	R605	1-216-837-11		22K	5%	1/16W	R863	1-216-833-11		10K	5%	1/16W
	R606	1-216-839-11		33K	5%	1/16W	R864	1-216-833-11		10K	5%	1/16W
	R610	1-216-817-11	METAL CHIP	470	5%	1/16W	R865	1-216-833-11 1-216-833-11		10K 10K	5%	1/16W 1/16W
	R611	1-216-816-11	METAL CHIP	390	5%	1/16W	R866	1-210-033-11	METAL CHIP	IUK	5%	1/1044
	R612	1-216-821-11	METAL CHIP	1K	5%	1/16W	R867	1-216-833-11	METAL CHIP	10K	5%	1/16W
	R613	1-216-817-11	METAL CHIP	470	5%	1/16W	R868	1-216-829-11		4.7K	5%	1/16W
	R616		METAL CHIP	1K	5%	1/16W	R869	1-216-817-11	METAL CHIP	470	5%	1/16W
	R619	1-216-815-11		330	5%	1/16W	R870	1-216-817-11		470	5%	1/16W
	R621	1-216-821-11	METAL CHIP	1K	5%	1/16W	R871	1-216-817-11	METAL CHIP	470	5%	1/16W
	DCCC	1 010 000 11	METAL CLUD	101/	E0/	4 /4 (3) 6/	D070	1 010 017 11	METAL CLUD	470	E 0/	1/1 CM
	R622 R623	1-216-833-11 1-216-853-11		10K 470K	5% 5%	1/16W 1/16W	R872 R873	1-216-817-11 1-216-817-11		470 470	5% 5%	1/16W 1/16W
	R629			10K	5%	1/16W	R874	1-216-864-11		0	5%	1/16W
	R630	1-216-836-11		18K	5%	1/16W	R875	1-216-817-11		470	5%	1/16W
	R631	1-216-837-11		22K	5%	1/16W	R876	1-216-817-11		470	5%	1/16W
	R636	1-216-833-11	METAL CHIP	10K	5%	1/16W	R877		METAL CHIP	470	5%	1/16W
	R639	1-216-821-11	METAL CHIP	1K	5%	1/16W	R878	1-216-817-11		470	5%	1/16W
	R640	1-216-841-11		47K 47K	5% 5%	1/16W 1/16W	R879 R880	1-216-817-11 1-216-817-11		470 470	5% 5%	1/16W 1/16W
	R641 R642	1-216-841-11 1-216-821-11		4/K 1K	5%	1/16W	R881	1-216-817-11		470	5% 5%	1/16W
	N042	1-210-021-11	METAL OTT	IIX	3 /0	171044	11001	1-210-017-11	WILIAL OTH	47.0	0 /0	171011
	R643	1-216-845-11	METAL CHIP	100K	5%	1/16W	R882	1-216-817-11	METAL CHIP	470	5%	1/16W
	R651	1-216-831-11		6.8K	5%	1/16W	R883	1-216-817-11	METAL CHIP	470	5%	1/16W
	R652	1-216-834-11		12K	5%	1/16W	R884		METAL CHIP	470	5%	1/16W
	R653	1-216-825-11		2.2K	5%	1/16W	R885	1-216-817-11		470	5%	1/16W
	R654	1-216-821-11	METAL CHIP	1K	5%	1/16W	R886	1-216-817-11	METAL CHIP	470	5%	1/16W
	R655	1-216-833-11	METAL CHIP	10K	5%	1/16W	R887	1-216-817-11	METAL CHIP	470	5%	1/16W
	R656	1-216-821-11		1K	5%	1/16W	R888			470	5%	1/16W
	R657	1-216-835-11		15K	5%	1/16W	R889	1-216-817-11		470	5%	1/16W
	R658	1-216-839-11		33K	5%	1/16W	R890	1-216-817-11	METAL CHIP	470	5%	1/16W
	R659	1-216-817-11		470	5%	1/16W	R891	1-216-817-11	METAL CHIP	470	5%	1/16W
				_								
	R660	1-216-864-11		0	5%	1/16W	R892		METAL CHIP	470	5%	1/16W
		1-216-828-11		3.9K	5%	1/16W	R893	1-216-817-11		470	5%	1/16W 1/16W
	R662 R663	1-216-847-11 1-216-864-11		150K 0	5% 5%	1/16W 1/16W	R894 R895		METAL CHIP METAL CHIP	3.3K 4.7K	5% 5%	1/16W
	R664		METAL CHIP	560	5%	1/16W	R897		METAL CHIP	470	5%	1/16W
	.1004	. 210 010-11	Oth		<b>5</b> /0	.,	,1007	011		•	- /-	
	R665	1-216-864-11	METAL CHIP	0	5%	1/16W	R898		METAL CHIP	470	5%	1/16W
	R666	1-218-831-11	RES,CHIP	220	0.50%	1/16W	R899	1-216-833-11	METAL CHIP	10K	5%	1/16W
	R667	1-218-831-11	RES,CHIP	220	0.50%	1/16W	R900	1-216-817-11		470	5%	1/16W
		1-216-833-11		10K	5%	1/16W	R901		METAL CHIP	470	5%	1/16W
	R669	1-218-827-11	KES,CHIP	150	0.50%	1/16W	R902	1-216-864-11	METAL CHIP	0	5%	1/16W
	R670	1-216-864-11	METAL CHID	0	5%	1/16W	R903	1-216-817-11	METAL CHIP	470	5%	1/16W
		1-216-864-11		0	5%	1/16W	R904		METAL CHIP	0	5%	1/16W
		1-218-827-11		150	0.50%	1/16W	R905		METAL CHIP	470	5%	1/16W
		1-216-864-11	•	0	5%	1/16W	R906		METAL CHIP	10K	5%	1/16W

Ref	. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		1-216-864-11		0	5%	1/16W	R972	1-216-864-11		0	5%	1/16W
ŀ	R907	1-216-864-11	WETAL CHIP	U	370	171044	N912	1-210-004-11	WILTAL OTHE	U	5 /0	171000
	3908	1-216-817-11	METAL CHIP	470	5%	1/16W	R973	1-216-864-11	METAL CHIP	0	5%	1/16W
	R909	1-216-833-11		10K	5%	1/16W	R974	1-216-864-11		0	5%	1/16W
		1-216-833-11		10K	5%	1/16W	R975	1-216-864-11		Ö	5%	1/16W
	R910					1/16W	R976	1-216-864-11		0	5%	1/16W
	3911	1-216-864-11		0	5%					0	5%	1/16W
ŀ	R912	1-216-817-11	METAL CHIP	470	5%	1/16W	R977	1-216-864-11	WE TAL UTIP	U	370	1/ TOVV
	2010	1 016 000 11	METAL CUID	10K	5%	1/16W	R980	1-216-844-11	METAL CHIP	82K	5%	1/16W
	R913	1-216-833-11		10K	5%	1/16W	R981	1-216-864-11		0	5%	1/16W
	3914	1-216-833-11		0		1/16W	R982	1-216-864-11		0	5%	1/16W
	R915	1-216-864-11			5%			1-216-837-11		22K	5%	1/16W
	R916	1-216-817-11		470	5%	1/16W	R983			1K	5%	1/16W
ì	3917	1-216-833-11	WETAL CHIP	10K	5%	1/16W	R984	1-216-821-11	WETAL CHIP	111	J /0	1/1000
	R918	1-216-833-11	METAL CHIP	10K	5%	1/16W	R985	1-216-833-11	METAL CHIP	10K	5%	1/16W
	1970 1919	1-216-864-11		0	5%	1/16W	R987	1-216-844-11		82K	5%	1/16W
		1-216-833-11		10K	5%	1/16W	R988	1-216-853-11		470K	5%	1/16W
	R920					1/16W	R989	1-216-805-11		47	5%	1/16W
	3921	1-216-864-11		0	5%							1/16W
ł	R922	1-216-833-11	METAL CHIP	10K	5%	1/16W	R991	1-216-826-11	WE TAL CHIP	2.7K	5%	1/1000
	2002	1-216-864-11	METAL CHIP	0	5%	1/16W	R993	1-216-037-00	METAL CHIP	330	5%	1/10W
	R923 R924	1-216-817-11		470	5%	1/16W	R994	1-216-833-11		10K	5%	1/16W
				470	5%	1/16W	R995	1-216-833-11		10K	5%	1/16W
	R925	1-216-817-11				1/16W	R996	1-216-061-00		3.3K	5%	1/10W
	R926	1-216-817-11		470	5%					22	5%	1/16W
ŀ	R927	1-216-817-11	METAL CHIP	470	5%	1/16W	R998	1-216-801-11	WEIAL UNIF	22	J /0	1/1000
ı	R928	1-216-817-11	METAL CHID	470	5%	1/16W	R1017	1-216-817-11	METAL CHIP	470	5%	1/16W
	320	1-216-817-11		470	5%	1/16W	111011	1 210 017 17	WEINE OIL	.,,	• / •	.,,,,,,,
	1930	1-216-817-11		470	5%	1/16W			< TEST PIN >			
				470	5%	1/16W			C (LOT FIN)			
	3931	1-216-817-11		10K	5%	1/16W	TP201	1-535-757-11	CHIP, CHECKER			
ı	3932	1-216-833-11	WETAL CHIP	IUN	370	1/1000	TP201		CHIP, CHECKER			
	2000	1 016 017 11	METAL CHID	470	5%	1/16W	TP858		CHIP, CHECKER			
	R933	1-216-817-11					TP859		CHIP, CHECKER			
	3934	1-216-817-11		470	5%	1/16W	11039	1-333-737-11	OHIF, OHEOKEN			
	3935	1-216-833-11		10K	5%	1/16W			- VIDDATOD >			
	3936	1-216-817-11		470	5%	1/16W			< VIBRATOR >			
. 1	R937	1-216-817-11	METAL CHIP	470	5%	1/16W	X201	1 570 700 01	VIBRATOR, CRYS	TAL /1/ 2	4 0 4 O N / L J -	1/DCD_40\
	2020	1-216-817-11	METAL CHID	470	5%	1/16W	X201		VIBRATOR, CRYS			
	388	1-216-841-11		476 47K	5%	1/16W	1 1201	1-373-700-21	VIDITATON, OTT	JIME (11.1		(DSR-40P)
	R939 R941	1-216-845-11		100K	5%	1/16W	X401	1-577-165-11	VIBLATOR, CERA	MIC (500)		(0011 401)
	3942	1-216-845-11		100K	5%	1/16W	X401		OSCILLATOR, CF			IH <sub>7</sub> \
	1942 1943	1-216-817-11		470	5%	1/16W	7402	1-507-500-11	OUGILLATOR, OF	HOIAL (1-		(DSR-40)
'	1840	1-210-017-11	WILIAL OTH	470	3 70	171000	X402	1-567-733-11	VIBRATOR, CRYS	STAL (17.7	34475MH	
F	R944	1-216-817-11	METAL CHIP	470	5%	1/16W						(DSR-40P)
	R945	1-216-817-11		470	5%	1/16W						,
	R946	1-216-817-11		470	5%	1/16W	X601	1-579-466-11	VIBRATOR, CRYS	STAL (3.57)	9545MHz	(DSR-40)
	R947	1-216-817-11		470	5%	1/16W	X601	1-579-661-21	OSCILLATOR, CF	RYSTAL (4.	433619N	lĤz)
	3948	1-216-833-11		10K	5%	1/16W				,		(DSR-40P)
							X651	1-567-900-11	OSCILLATOR, CF	RYSTAL (14	.31818M	lHz)
F	R949	1-216-817-11	METAL CHIP	470	5%	1/16W				•		(DSR-40)
	R950	1-216-817-11		470	5%	1/16W	X651	1-567-733-11	VIBRATOR, CRYS	STAL (17.7)	34475MH	lz)
	3951	1-216-817-11		470	5%	1/16W				•		(DSR-40P)
	R952	1-216-841-11	•	47K	5%	1/16W						,
	R953	1-216-841-11		47K	5%	1/16W	X652	1-577-165-11	VIBLATOR, CERA	MIC (500k	Hz)	
•						.,	X851		VIBRATOR, CERA			
	3954	1-216-841-11	METAL CHIP	47K	5%	1/16W	X852		VIBRATOR, CRYS			
	R955	1-216-841-11		47K	5%	1/16W	X853		VIBRATOR, CRYS			
	R956	1-216-841-11		47K	5%	1/16W	7,000	1700 100 21	VIBINITON, OTTO	71712 (02:11	J 5111112	
	R957	1-216-841-11		47K	5%	1/16W						
	R958	1-216-833-11		10K	5%	1/16W	{		MISCELLANEOUS	3		
'	1000	1-210-000-11	WEIZE OIII	·	0 70	171011			*******			
F	R959	1-216-833-11	METAL CHIP	10K	5%	1/16W						
	R960	1-216-833-11		10K	5%	1/16W	55	1-790-556-11	CABLE, FLAT (FV	H-5)		
	3962	1-216-154-00		15	5%	1/8W	56		CABLE, FLAT (FV			
	R963	1-216-154-00		15	5%	1/8W	57		CABLE, FLAT (FV			
	R964	1-219-570-11		10M	5%	1/16W	60		HARNESS (VP-73			
•	.551	. =.0 070 11	,		- /-		62		CABLE, FLAT (FV			
F	R965	1-216-817-11	METAL CHIP	470	5%	1/16W			-, v :			
	R966	1-216-864-11		0	5%	1/16W	63	1-959-585-11	HARNESS (HR-6	2)		
	R967	1-216-864-11		0	5%	1/16W	64		HARNESS (CR-1			
	R971	1-216-864-11		0	5%	1/16W			•			

Ref. No.	Part No.	Description	Remark
<b> ∆</b> 66	1-958-585-11	HARNESS (AC-227)	
72	1-790-725-11		
74	1-782-822-11	CABLE, FLAT (FVR-9)	
101 102 105 113 114	1-776-148-11 1-776-145-11 1-764-137-11 1-958-288-11 1-776-151-11	CABLE, FLAT (FCM-11) 15P CABLE, FLAT (FCM-8) 16P CONNECTOR, TRANSLATION 15P HARNESS (CM-130) CABLE, FLAT (FCM-12) 14P	
114	1-776-131-11	CADLE, I LAI (I GIVI-12) 141	
115 116 117 118 119	1-776-147-11 1-776-146-11 1-958-057-11 1-958-061-11 1-958-058-11	CABLE, FLAT (FCM-10) 15P CABLE, FLAT (FCM-9) 9P HARNESS (CP-79) HARNESS (VJ-103) HARNESS (JP-55)	
120 121 755 851 CN901	1-959-584-11 1-543-793-11 A-7044-015-A 1-658-990-11 1-770-312-21	HARNESS (JH-51) FILTER, CLAMP (FERRITE CORE) DRUM ASSY (DEH-08B-R) FP-406 FLEXIBLE BOARD CONNECTOR 4P	
M901 M902 M903 M904 M905	X-3944-897-2 8-835-545-01 X-3945-784-1 8-835-537-01 1-698-534-31	FPC ASSY, MOTOR MOTOR, DC SCD11A/J-N (CAPSTAN) MOTOR ASSY, LM (LOADING) MOTOR, DC SRD11A/J-N (REEL) FAN, DC	G.
S001 S901 S902	1-762-550-11 1-762-551-11 1-572-288-11	SWITCH, ROTARY (MODE) SWITCH, PUSH (REC PROOF) SWITCH, PUSH (C IN SW)	

#### HARDWARE LIST

\*\*\*\*\*

#1	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S
#2	7-682-552-09	SCREW +P 3X16
#3	7-682-547-09	SCREW +B 3X6
#4	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT
#6	7-628-253-20	SCREW +PS 2X6
#7	7-682-646-09	SCREW +PS 3X5
#8	7-628-253-00	SCREW +PS 2X4
#9	7-627-553-37	SCREW (M2X3), SPECIAL HEAD
#10	7-685-871-01	SCREW +BVTT 3X6 (S TIGHT)

#### **ACCESSORIES** \*\*\*\*\*

1-551-812-11 CORD, POWER (DSR-40) 1-782-929-11 CORD, POWER SUPPLY (BS 3P) (DSR-40P) 3-865-349-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH) 3-865-349-21 MANUAL, INSTRUCTION (GERMAN, ITALIAN) Δ Δ (DSR-40P)